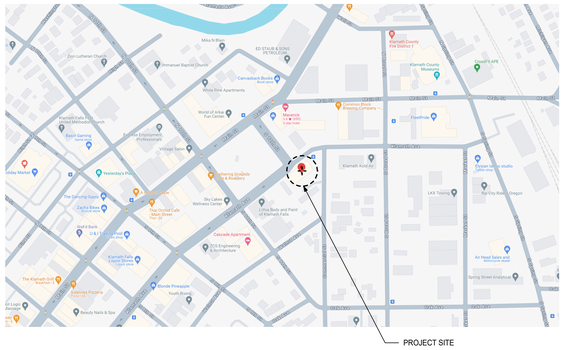
VICINITY MAP:



OREGON TECH

PROJECT ADDRESS:

200 Commercial Street
Klamath Falls, OR 97601

PROJECT SUMMARY:

PROJECT CONSISTS OF INTERIOR RENOVATIONS & SITEWORK INTENDED FOR USE AS MENTAL AND BEHAVHIORAL HEALTH CLINIC.

PLANNING INFORMATION:

MAP & TAX LOT: 38S09E32AA TAX LOT 01900
SUBDIVISION LOT & BLOCK: CANAL ADDITION LOTS 1, 17 18 & 19 IN BLOCK 4
ZONING: GENERAL COMMERCIAL
LOT AREA: 19,503 SF

PROJECT TEAM

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APPLICABLE CODES

2022 OREGON STRUCTURAL SPECIALTY CODE
2021 OREGON ENERGY EFFICIENCY SPECIALTY CODE
2022 OREGON MECHANICAL SPECIALTY CODE
2023 OREGON PLUMBING SPECIALTY CODE
2023 OREGON ELECTRICAL SPECIALTY CODE
2022 OREGON FIRE CODE

DEFERRED SUBMITTALS

REFER TO SPECIFICATION SECTION 01 1150 FOR BIDDER DESIGN REQUIREMENTS FOR BOTH AHJ REVIEW ITEMS AND NON-AHJ DEFFERRED ITEMS. SUBMITTAL DOCUMENTS FOR AHJ DEFERRED SUBMITAL ITEMS SHALL BE SUBMITED TO THE ARCHITECT OF RECORD BY THE GENERAL CONTRACTOR. ARCHITECT AND APPROPRIATE ENGINEER OF RECORD SHALL REVIEW AND RETURN. THE GENERAL CONTRACTOR SHALL THEN FORWARD AHJ SUBMITTAL ITEMS TO THE BUILDING OFFICAL FOR AHJ APPROVAL WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE AHJ DEFERRED SUBMITAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

AUTHORITY HAVING JURISDICTION (AHJ) DEFFERRED SUBMITTAL ITEMS:

A. FIRE ALARM SYSTEM
B. STRUCTURAL

SEE SPECIFICATION SECTION 01 1150 SUBMITTAL REQUIREMENTS FOR NON-AHJ BIDDER DESIGNED/ENGINEERED ITEMS.

PROJECT NOTES

1. THE CONSTRUCTION CONTRACT IS FOR THE CONSTRUCTION OF A COMPLETE AND FULLY FUNCTIONING INSTALLATION. THESE DOCUMENTS DESCRIBE THE DESIGN INTENT AND SPECIFIC REQUIREMENTS OF THE INSTALLATION. THESE DOCUMENTS DO NOT INTEND TO SHOW EVERY ITEM REQUIRED TO CONSTRUCT THE WORK. ITEMS SUCH AS FASTENERS, CONNECTORS, FILLERS, MISCELLANEOUS CLOSURE ELEMENTS, ANCILLARY CONTROL WIRING AND POWER WHERE REQUIRED FOR THE CONTROL OR OPERATION OF THE PROVIDED EQUIPMENT ARE NOT ALWAYS SHOWN BUT ARE CONSIDERED INCLUDED IN THE SCOPE OF THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A FULLY FUNCTIONING INSTALLATION WHICH MEETS THE DESIGN INTENT, INCLUDING THE SPECIFIC REQUIREMENTS INCLUDED IN THESE DOCUMENTS.
2. ALL ITEMS IN THESE DOCUMENTS ARE NEW UNLESS OTHERWISE NOTED.
3. THESE DOCUMENTS DESCRIBE A SINGLE CONSTRUCTION CONTRACT. THE USE OF SUBCONTRACTORS IS THE ELECTION OF THE CONTRACTOR. THESE DOCUMENTS DO NOT INTEND TO DIVIDE THE WORK AMONG THE CONTRACTOR'S SUBCONTRACTORS. WHERE THE DOCUMENTS IDENTIFY WORK WHICH IS "NOT IN MECHANICAL WORK" OR "NOT IN ELECTRICAL WORK" IT MEANS THAT WORK IS NOT FURTHER DESCRIBED OR SPECIFIED IN THE MECHANICAL OR ELECTRICAL DRAWINGS OR SPECIFICATIONS. IT DOES NOT PRECLUDE THE CONTRACTOR FROM DELEGATING THE WORK TO THE ENTITIES OF HIS ELECTION. IN ADDITION THE DIVISION OF THE CONTRACT DOCUMENTS INTO ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND OTHER DESIGN DISCIPLINES NEITHER DIVIDES THE WORK FOR THOSE DISCIPLINES AS SHOWN ONLY IN THOSE DRAWINGS OR SPECIFICATIONS.
4. ITEMS INDICATED IN THIS SET NOTED "BY OWNER" ARE NOT IN THE CONTRACT (N.I.C.)
5. UNLESS OTHERWISE NOTED, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO REVIEW ALL DRAWINGS, PROJECT MANUAL, ADDENDA, ETC. IN ORDER TO ASSURE THE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW AND COORDINATE ALL CONTRACT DOCUMENTS BY THE GENERAL CONTRACTOR WITH ALL THE SUBCONTRACTORS FOR APPLICABLE ITEMS OF THE WORK SHALL NOT RELIVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK SO REQUIRED AS PART OF THE CONTRACT.
6. UNLESS OTHERWISE NOTED, THE PROJECT MANUAL, WHICH INCLUDES THE GENERAL CONDITIONS, SUPPLEMENTAL CONDITIONS, AND TECHNICAL SPECIFICATIONS, AND THE DRAWINGS ARE COMPLEMENTARY AND TOGETHER DESCRIBE THE PROJECT REQUIREMENTS. WHERE THERE ARE DISCREPANCIES BETWEEN THE PROJECT MANUAL AND THE DRAWINGS, THE CONTRACTOR SHALL ADVISE THE ARCHITECT AND REQUEST A CLARIFICATION. THE ORDER OF PRECEDENCE BETWEEN THE DRAWINGS AND THE PROJECT MANUAL IS AS DEFINED IN THE PROJECT MANUAL.
7. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL LAYOUT AND SEQUENCE THE INSTALLATION OF THE WORK SO THAT THE DIFFERENT SYSTEMS DO NOT OBSTRUCT THE INSTALLATION OF SUCCESSIVE WORK. IN GENERAL, SYSTEMS INSTALLED FIRST SHOULD BE KEPT AS HIGH AND TIGHT TO STRUCTURE AS POSSIBLE TO LEAVE SPACE AVAILABLE FOR SYSTEMS WHICH FOLLOW.
8. REFER TO THE PROJECT MANUAL FOR SPECIFICATIONS, GENERAL INFORMATION, PRODUCTS AND EXECUTION REQUIREMENTS. REQUIREMENTS OF THE SPECIFICATIONS APPLY TO ALL ASPECTS OF THE WORK AND ARE INCLUDED AS ADDITIONAL INFORMATION FOR EACH ITEM SPECIFIED. IF DISCREPANCIES EXISTS BETWEEN THE SPECIFICATIONS AND DRAWINGS, THE MORE STRINGENT REQUIREMENTS SHALL PREVAIL. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVES OF ANY DISCREPANCIES.
9. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS WILL VISIT THE SITE PRIOR TO BIDDING IN ORDER TO FAMILIARIZE THEMSELVES WITH THE EXISTING SITE CONDITIONS AND THE IMPACT OF THE PROPOSED NEW WORK, INDICATED ON THE DRAWINGS AND SPECIFICATIONS, ON THESE CONDITIONS. ANY QUESTIONS REGARDING THE COORDINATION OF NEW WORK OR EXISTING CONDITIONS MUST BE SUBMITTED TO THE OWNER'S REPRESENTATIVE IN WRITING PRIOR TO BID SUBMISSION AND WITH ADEQUATE TIME FOR RESPONSE TO ALL BIDDERS. THE OWNER'S REPRESENTATIVE WILL RESPOND TO QUESTIONS, SUBMITTED IN A TIMELY MANNER, WITH WRITTEN CLARIFICATIONS FORWARDED TO ALL BIDDERS.
10. THE EXISTING DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS ARE ASSUMED TO BE ACCURATE BASED ON AVAILABLE INFORMATION. THE CONTRACTOR SHALL, PRIOR TO THE START OF CONSTRUCTION, VERIFY ALL EXISTING CONDITIONS, PROVIDE A COMPLETE FIELD LAYOUT ON THE JOB SITE, AND NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DEVIATIONS OR CONFLICTS WITH THESE DRAWINGS.
11. THE DRAWINGS SHALL NOT BE SCALED. THE GENERAL CONTRACTOR SHALL REFER TO THE DIMENSIONS INDICATED OR THE ACTUAL SIZES OF CONSTRUCTION ITEMS. WHERE NO DIMENSIONS OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT DIMENSIONS OR LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
12. THE DRAWINGS AND REFERENCED DETAILS HAVE BEEN DIMENSIONED IN ORDER TO ESTABLISH THE CONTROL AND GUIDELINES FOR FIELD LAYOUT. WHERE A DISCREPANCY EXISTS BETWEEN THE DRAWING AND THE DETAIL THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO INSTALLATION.
13. DIMENSIONS ARE TO FACE OF FINISH UNLESS OTHERWISE NOTED.
14. WHERE DIMENSIONS ARE NOTED TO BE VERIFIED IN THE FIELD (VIF) THE DIMENSION SHOWN IS THE DESIGN BASIS, BUT MAY DIFFER FROM ACTUAL CONDITIONS. CONTRACTOR SHALL VERIFY THESE DIMENSIONS WHILE LAYING OUT THE WORK AND REPORT ANY DISCREPANCIES BETWEEN THE DESIGN BASIS AND ACTUAL DIMENSIONS TO THE OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH THE WORK. WHERE DIMENSIONS ARE NOTED "+/-" FIELD DIMENSIONS MAY VARY FROM THE NOTED DIMENSIONS BY MINOR AMOUNTS. IF THE CONTRACTOR IDENTIFIES DIMENSIONS IN THE FIELD THAT DIFFER BY MORE THAN 1" FROM THE +/- DIMENSIONS INDICTED IN THE DRAWINGS, THE CONTRACTOR SHOULD CONFIRM DIFFERENTIAL WITH ARCHITECTS.
15. INTERIOR DETAILS ARE KEYED TO THE PLANS AT TYPICAL LOCATIONS. TYPICAL DETAILS APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT OTHERWISE DETAILED. THE CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE TO COORDINATE THE LOCATION OF TYPICAL DETAILS AND INSTALL THE WORK INDICATED. IF DISCREPANCIES EXIST OR QUALIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO PROCEEDING.
16. INTERIOR FINISHES ARE KEYED TO THE DRAWINGS AT TYPICAL LOCATIONS. THE FINISHES APPLY TO ALL LOCATIONS WHICH ARE SIMILAR BUT ARE NOT OTHERWISE DETAILED. CONTRACTOR AND SUBCONTRACTORS ARE RESPONSIBLE TO COORDINATE THE LOCATION ALL TYPICAL DETAILS AND INSTALL THE WORK INDICATED. IF DISCREPANCIES EXIST OR QUALIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR CLARIFICATION PRIOR TO PROCEEDING.
17. WALL FIRE RATING INDICATIONS ON THE FLOOR PLANS SHOW EXTENT OF FIRE RATED PARTITION. FIRE RATING IN A PARTITION SHALL CONTINUE OVER DOOR OR WINDOW OPENING WHETHER OR NOT THEY APPEAR IN PLAN.
18. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO VERIFY SIZE AND INVERT ELEVATION OF OPENINGS / SLEEVES THROUGH CONCRETE AND MASONRY WALLS AND CONCRETE FOUNDATION WALLS. OPENINGS / SLEEVES ARE NOT LIMITED TO THOSE SHOWN ON STRUCTURAL DRAWING SHEETS.
19. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO COORDINATE AND MAKE PROVISIONS FOR ALL PIPE / CONDUIT SLEEVES THROUGH CONCRETE WALLS.
20. ELEVATIONS ARE TO TOP OF CONCRETE OR OTHER HARD SURFACE MATERIAL. DO NOT SCALE DRAWINGS. USE DIMENSIONS INDICATED.
21. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING THE WORK. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SHALL BE INCLUDED AS PART OF THE WORK.
22. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AT THE SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO START OF THE WORK. IN CASE OF CONFLICT BETWEEN ARCHITECTURAL AND CONSULTANTS DRAWINGS, THE ARCHITECT WILL DETERMINE THE CORRECT INTENTION OF THE WORK.
23. THE BUILDING SHALL BE PROVIDED WITH A FULL SPRINKLER SYSTEM COMPLYING WITH APPLICABLE CODES OF THE AUTHORITY HAVING JURISDICTION.
24. PROVIDE PEDESTRIAN PROTECTION AS NECESSARY AND AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
25. ALL CONSTRUCTION RELATING TO BUILDING, PARKING OR SITE DEVELOPMENT SHALL CONFORM TO STATE OF OREGON AND JURISDICTIONAL ACCESSIBILITY REQUIREMENTS.
26. THE CONTRACTOR SHALL COORDINATE ANY AND ALL REQUIREMENTS FOR OFF-SITE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO SIDEWALKS, DRIVEWAYS, CURBS, GUTTERS, UTILITIES, ETC. OFF SITE IMPROVEMENTS SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION (AHJ).
27. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES, SYMBOLS, AND TYPICAL DETAILS. SPECIFIC NOTES ON DETAILS APPLY TO SIMILAR CONDITIONS UNLESS NOTED OTHERWISE (UNO / UON).
28. ELEVATORS SHALL COMPLY WITH THE 'OREGON ELEVATOR SPECIALTY CODE'.
29. WHERE FIRE RATED OPENING PROTECTION IS REQUIRED, THE FIRE DOORS AND SMOKE AND DRAFT CONTROL ASSEMBLIES INSTALLED IN CORRIDOR OPENINGS SHALL BE TESTED AND LABELED IN ACCORDANCE WITH OSSC CURRENT EDITION SECTION 714. IN ACCORDANCE WITH THE REQUIREMENTS OF THE LISTED ASSEMBLY, THE MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE PROVIDED WITH EACH ASSEMBLY FOR INSTALLATION AND FOR REVIEW BY THE INSPECTION AUTHORITY.

SHEET INDEX

CODE SUMMARY

EXISTING GROSS BUILDING AREA - 5163 SF
EXISTING NET BUILDING AREA - 4716 SF

EXISTING OCCUPANCY - B
PROPOSED OCCUPANCY - B, OFFICE USE, WITH B NON-AMBULATORY OUTPATIENT CLINIC.

EXISTING CONSTRUCTION TYPE - TYPE V-B, NO CHANGE PROPOSED
FIRE PROTECTION - NONE

ALLOWABLE HEIGHT - 40'
ACTUAL HEIGHT - 16'

ALLOWABLE STORIES - 2
ACTUAL STORIES - 1

ALLOWABLE AREA - 9,000 BASE AREA, ALLOWABLE INCREASES FOR FRONTAGE NOT NEEDED
ACTUAL AREA - 5163 SF

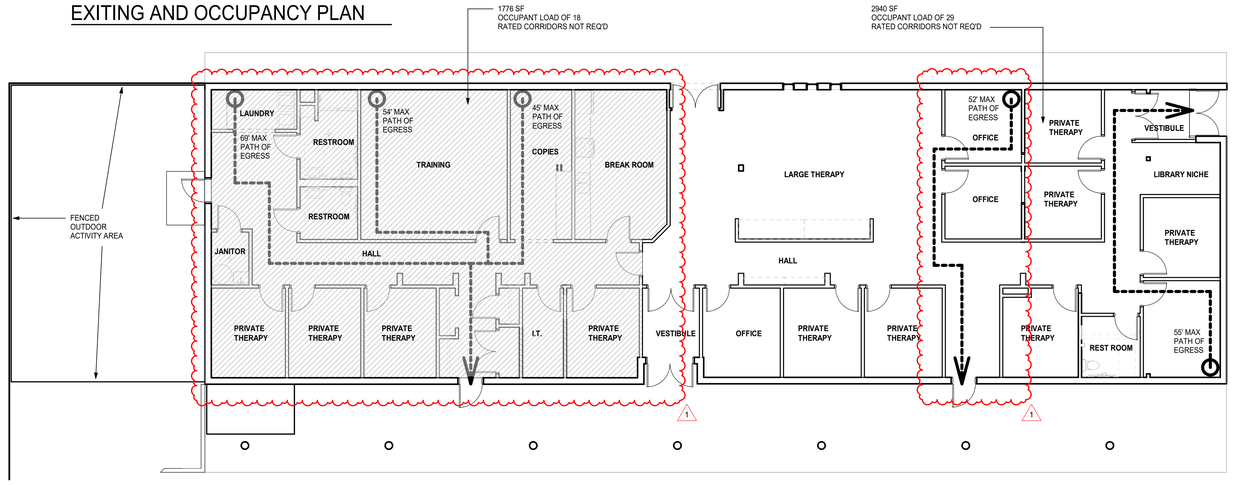
ACCESSIBLE PARKING
ORS 447.233 MANDATES THE NUMBER OF ACCESSIBLE PARKING SPACES BASED ON THE TOTAL NUMBER OF SPACES ON THE PROPERTY. THIS PROPOSED PARKING LAYOUT CONTAINS LESS THAN 25 PARKING SPACES, SO 1 IS REQUIRED TO BE ACCESSIBLE AND MARKED FOR BOTH VAN ONLY AND WHEELCHAIR ONLY USE. VAN PARKING DIMENSIONS REQUIRE A 9 FOOT WIDE SPACE WITH AN ADJACENT 8 FOOT WIDE AISLE.

OCCUPANT LOAD: 4716 SF/100 OUTPATIENT CLINIC LOAD FACTOR (TABLE 1004.5) = 47

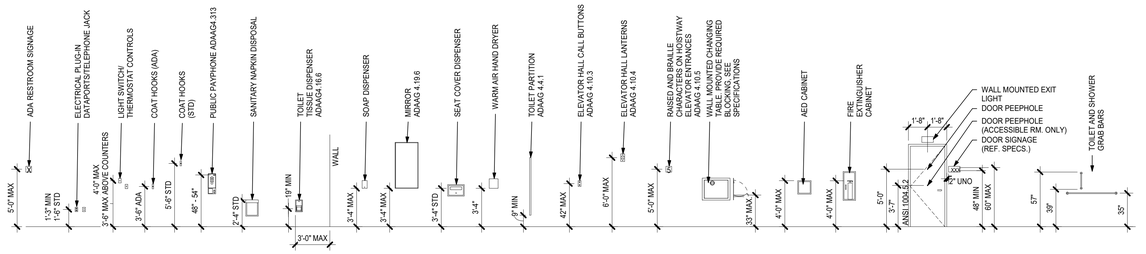
EXITING
PER TABLE 1006.3.4. THE MAXIMUM ALLOWED EXIT ACCESS TRAVEL DISTANCE IS 75 FEET. DESIGN SHOWS EXITS WITH ACTUAL TRAVEL DISTANCE AT 55 FEET.

PLUMBING FIXTURES:
PER TABLE 2902.1, A B OCCUPANCY REQUIRES 1 WATER CLOSET AND 1 LAVATORY FOR THE FIRST 50 IN THE OCCUPANT LOAD. THREE OF EACH ARE PROVIDED.

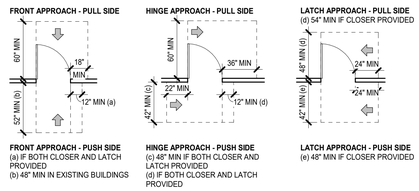
EXITING AND OCCUPANCY PLAN



ADA MOUNTING HEIGHTS



ADA DOOR MANEUVERING CLEARANCES



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Revisions

No.	Description	Date
1	ADDENDUM 01	Date 1

Stamp

REGISTERED ARCHITECT
5209
JOHN D. VAN CALCAR
PORTLAND, OREGON
RENEWAL DATE
12-31-23
STATE OF OREGON

Issuance
Permit Set

Date
March 22nd, 2024

Project Number
23020

Drawing Title
PROJECT INFO

Sheet No
G101

DATE 4/12/2024 4:05:48 PM
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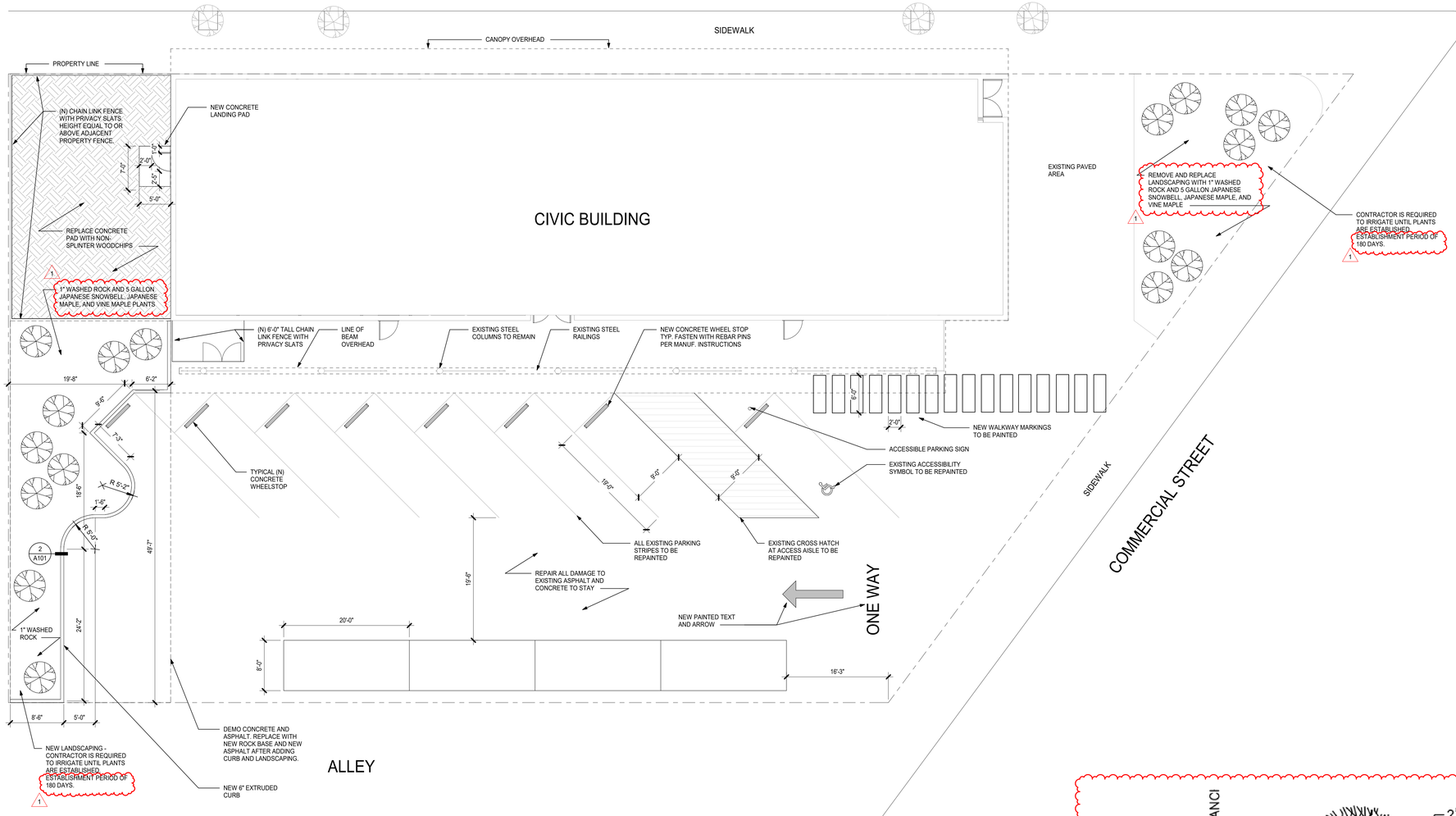
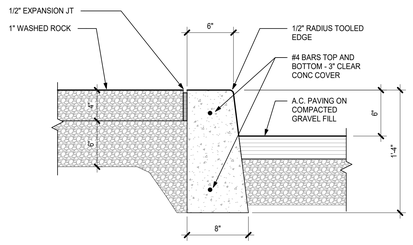
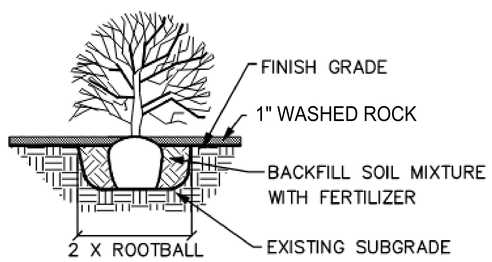


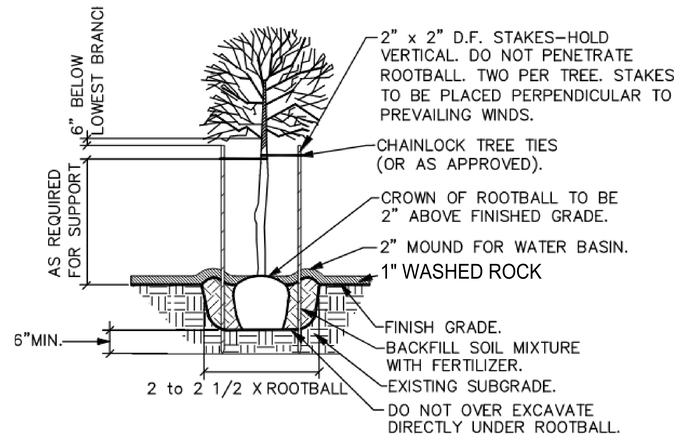
1 SITE PLAN
A101 (1/8" = 1'-0")



2 CURB SECTION
A101 (1 1/2" = 1'-0")



3 SHRUB PLANTING DETAIL
A101 (1 1/2" = 1'-0")



NOTE:
TREE STALKING SHALL REMAIN IN PLACE FOR A MINIMUM OF ONE YEAR.

4 GENERAL DECIDUOUS TREE PLANTING DETAIL
A101 (1" = 1'-0")

NORTH

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23020

Drawing Title
SITE PLAN

Sheet No
A101

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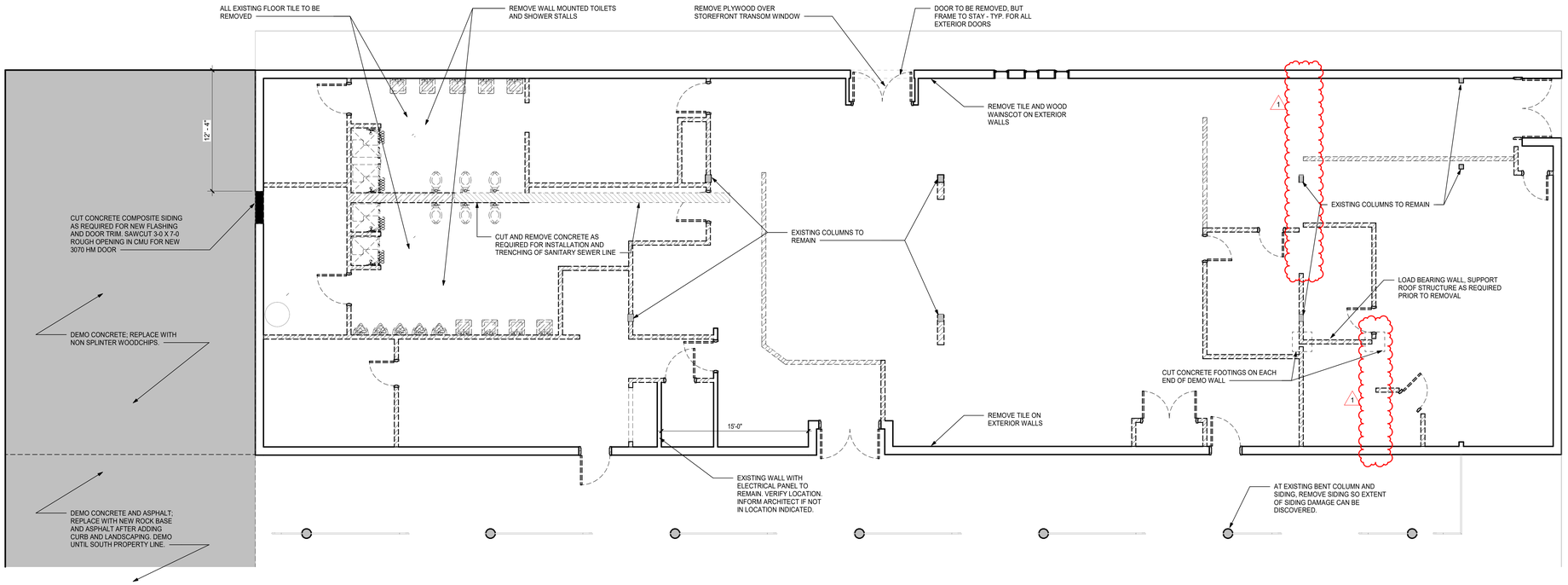


1 DEMO FLOOR PLAN

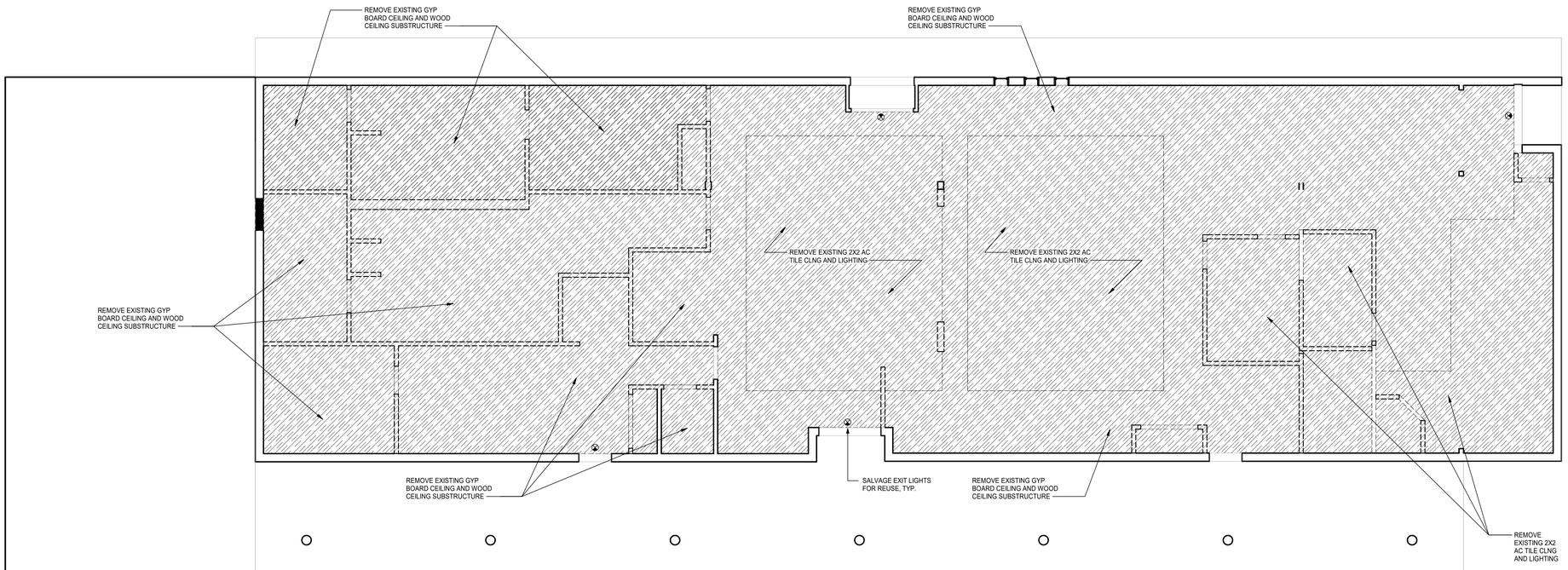
A201 (3/16" = 1'-0")

DEMO FLOOR PLAN SHEET NOTES

1. VERIFY EXTENT OF DEMOLITION WITH PROPOSED FLOOR PLANS.
2. PATCH ALL EXISTING WALLS AS REQUIRED TO PROVIDE A SMOOTH SURFACE FOR NEW FINISHES.
3. CONTRACTOR SHALL PROVIDE TEMPORARY PARTITION DUST BARRIERS IN ORDER TO MINIMIZE THE SPREAD OF DUST AND DEBRIS, AND TO PROTECT ADJACENT SPACES.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL DEMOLITION MATERIAL, IN ACCORDANCE WITH BUILDING OWNER / TENANT STANDARDS.
5. PULL ANY DEMOLISHED WIRING BACK TO THE NEAREST JUNCTION BOX AND CAP IN ACCORDANCE WITH CODE. IN WALLS TO BE REMOVED, REMOVE WALL BOXES AND CONDUIT.
6. PULL ANY DEMOLISHED PLUMBING LINES BACK TO THE NEAREST POINT OF CIRCULATION AND CAP IN ACCORDANCE WITH CODE.
7. REFER TO NON-ARCHITECTURAL SHEETS FOR ADDITIONAL DEMOLITION SCOPE.
8. REMOVE ALL WALLS & DOORS INDICTAED BY DASHED LINES.
9. REMOVE ALL FLOOR FINISHES ABOVE SUBFLOOR.
10. REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES. ALSO REMOVE ALL UNUSED PIPING TO A POINT BEHIND OR BELOW FINISHED SURFACES AND CAP IN PLACE. MAINTAIN EXISTING PIPING WHERE NECESSARY FOR EXTENSION TO NEW FIXTURE LOCATIONS. REMOVE ALL EXISTING VENT PIPING THAT IS BELOW ROOF. MAINTAIN VTR LOCATIONS FOR NEW FIXTURE CONNECTION. PROTECT CLOSET BENDS WHERE NEW TOILETS WILL BE INSTALLED IN SAME LOCATIONS.
11. REMOVE WATER SUPPLY PIPING IN WALLS THAT ARE REMOVED.
12. REMOVE ALL MIRRORS.

LEGEND

- WALL TO BE DEMOLISHED
- PORTION OF CONCRETE TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- EXISTING COLUMN TO REMAIN
- DEMO ASPHALT AND CONCRETE



2 DEMOLITION REFLECTED CEILING PLAN

A201 (3/16" = 1'-0")

DEMO RCP SHEET NOTES

1. REMOVE ALL CEILINGS AND SOFFITS EXCEPT FOR THOSE SHOWN.
2. REMOVE ALL BULKHEADS.
3. REMOVE EXISTING LIGHTING AND HVAC GRILLES IN CEILINGS.
4. REMOVE ALL EXISTING MECHANICAL GRILLES AND LIGHT FIXTURES IN CEILINGS TO BE DEMOED.

LEGEND

- WALL TO BE DEMOLISHED
- EXISTING WALL TO REMAIN
- GYP BD CEILING / SOFFIT / WOOD SUBSTRUCTURE TO BE DEMOLISHED
- ACOUSTIC CEILING TILE (ACT) TO BE DEMOLISHED

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23020

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DEMO FLOOR AND CEILING PLANS

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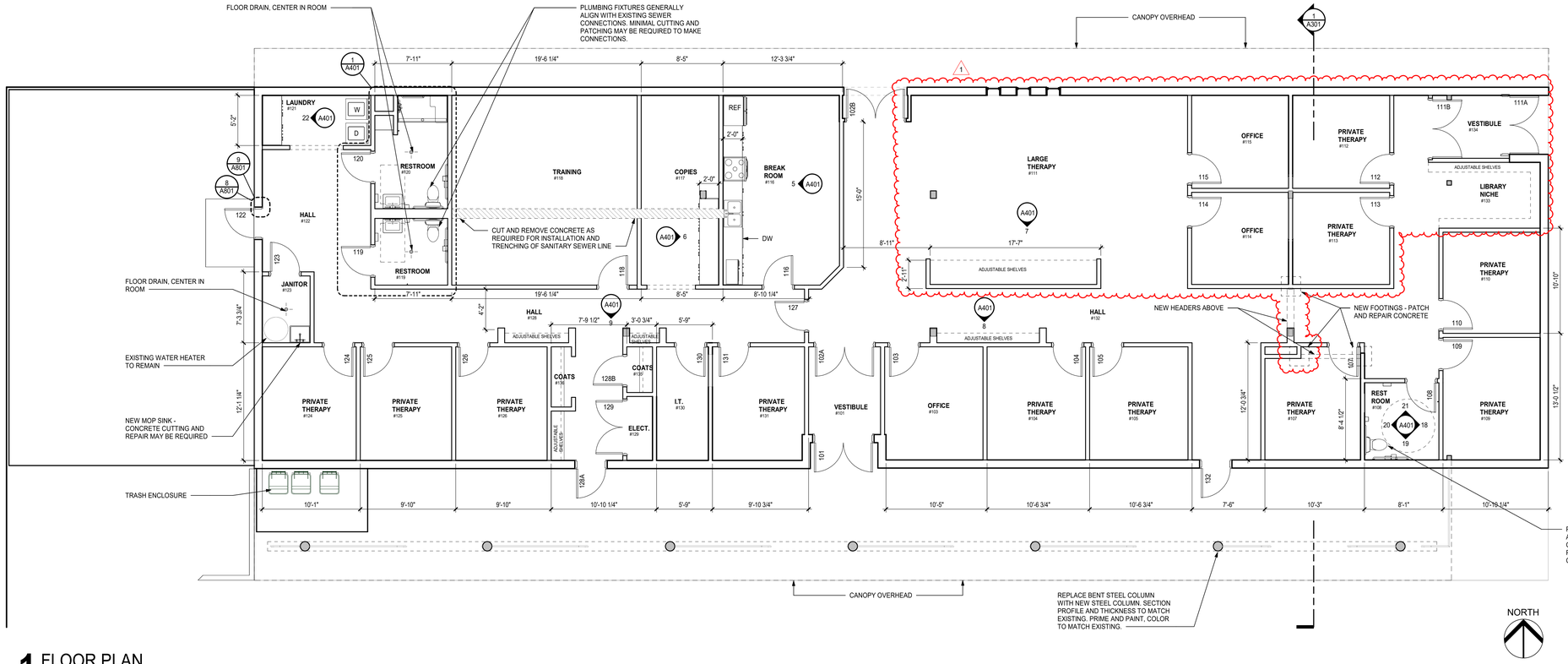
A201

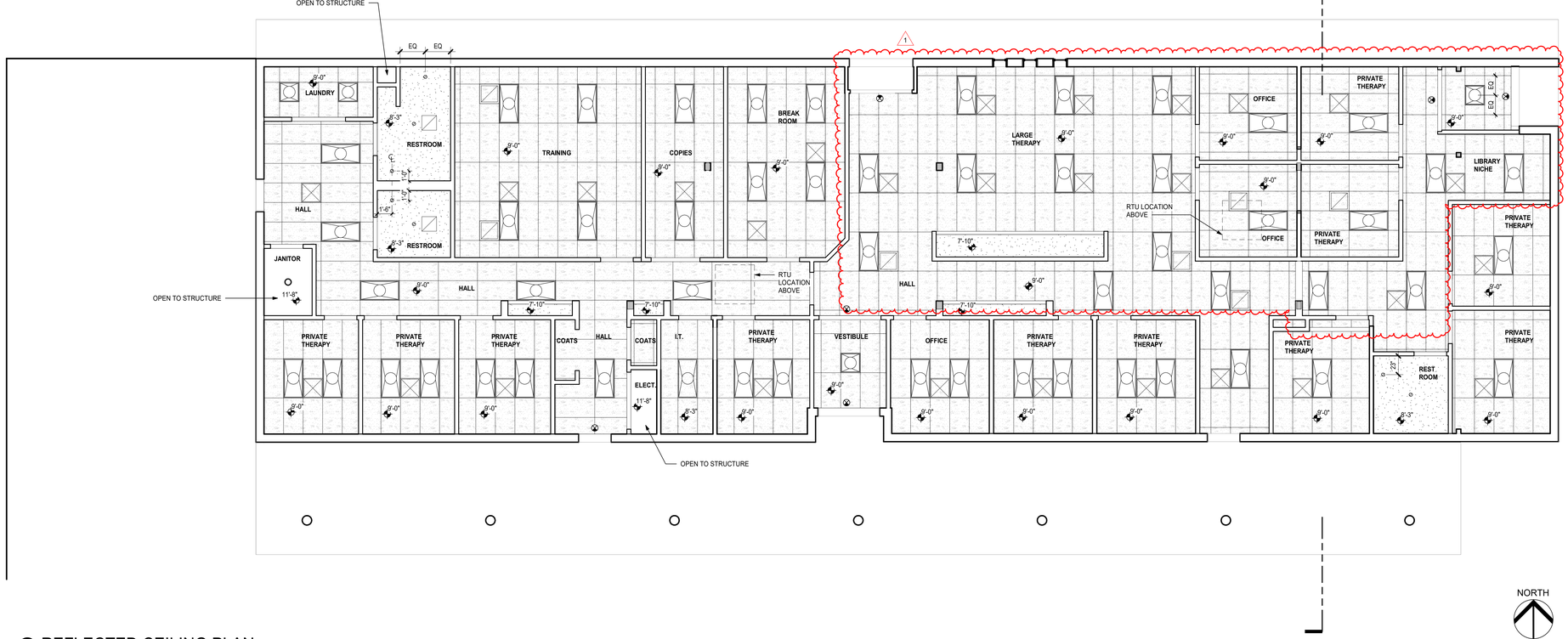


1 FLOOR PLAN

A202 (3/16" = 1'-0")

FLOOR PLAN SHEET NOTES

1. ANY INTERIOR WALL NOT LABELED WITH A WALL TAG SHALL BE WALL TYPE: W01.
2. REFER TO SHEET A101 FOR INTERIOR PARTITION TYPES AND KEY
3. REFER TO DIMENSIONAL STANDARDS ON G101.
4. ALL ACOUSTIC WALL SEPARATIONS MUST BE SEALED FOR SOUND TRANSMISSION.
5. ALL EXISTING COLUMNS TO REMAIN.



2 REFLECTED CEILING PLAN

A202 (3/16" = 1'-0")

RCP SHEET NOTES

1. REFER TO ENGINEER'S DRAWINGS FOR LIGHT SWITCHING AND SPECIFICATION, EXIT SIGN LOCATIONS, AND ELECTRICAL AND MECHANICAL SYSTEMS.
2. REPORT TO ARCHITECT ANY CONFLICTS BETWEEN ELECTRICAL, MECHANICAL, OR STRUCTURAL DRAWINGS AND THIS LAYOUT.
3. ALL VISIBLE STRUCTURE, DUCTWORK, PIPES, CONDUITS, AND OTHER ASSOCIATED COMPONENTS NOT FULLY CONCEALED BEHIND A CONTINUOUS CEILING TO BE PAINTED.
4. ALL LIGHTS AND GRIDS ARE TO BE CENTERED IN ROOM, UON.
5. CONTRACTOR RESPONSIBLE FOR WOOD STRUCTURE FOR GYPSUM CEILINGS PER PRESCRIPTIVE CODE METHODS.

LEGEND

- X'-XX" — CEILING SPOT HEIGHT
- +X'-X" — FINISH CEILING HEIGHT ABOVE FINISH FLOOR
- 2X4 LIGHT FIXTURE
- 2X2 LIGHT FIXTURE
- EXIT LIGHT
- RECESSED CAN LIGHT
- SURFACE MOUNTED DOWNLIGHT
- SA GRILLE
- RA GRILLE
- EXHAUST FAN GRILLE

CEILING FINISHES

- SUSPENDED 24x48 ACOUSTIC CEILING TILE (ACT)
- SUSPENDED 24x24 ACOUSTIC CEILING TILE (ACT)
- EXISTING CEILING TO STAY
- GYPSUM BOARD ON 2X, PAINTED

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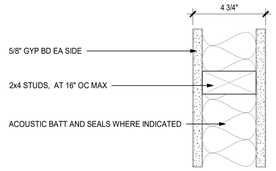
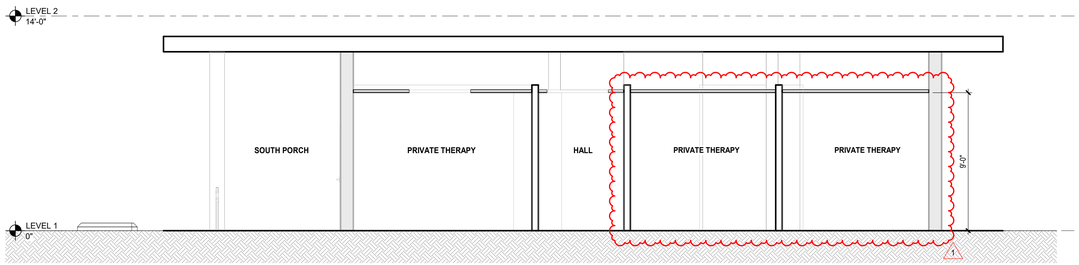
Drawing Title
FLOOR PLAN AND CEILING PLAN

Sheet No
A202



W01 TYPICAL INTERIOR PARTITION

A301 (3" = 1'-0")



NOTE: SEE TABLES IN SECTION 2308.7.1 IN 2022 OSSC, "CEILING JOIST SPANS FOR COMMON LUMBER SPECIES" FOR CEILING JOISTS AND SPACING.

1 CROSS SECTION AT LARGE THERAPY ROOM

A301 (1/4" = 1'-0")

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	CASEWORK	OTHER
101	VESTIBULE	WOM	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
103	OFFICE	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
104	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
105	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
107	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
108	REST ROOM	VSF	RB-2	GYP-2, PT	GYP-2, PT	FRP-2, EXST	FRP-2, GYP-2, PT	ACT		
109	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	EXST	EXST	GYP-1, PT	ACT		
110	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	EXST	GYP-1, PT	GYP-1, PT	ACT		
111	LARGE THERAPY	VSF	RB-1	EXST	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
112	PRIVATE THERAPY	VSF	RB-1	EXST	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
113	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
114	OFFICE	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
115	OFFICE	VSF	RB-1	EXST	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
116	BREAK ROOM	VSF	RB-2	EXST	GYP-1, PT	GYP-1, PT	GYP-2, PT	ACT	PL-3	
117	COPIES	VSF	RB-1	EXST	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT	PL-3	
118	TRAINING	VSF	RB-1	EXST	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
119	RESTROOM	VSF	RB-2	FRP-2, GYP-2, PT	FRP-2, GYP-2, PT	GYP-2, PT	GYP-2, PT	GYP-3		
120	RESTROOM	VSF	RB-2	EXST	FRP-2, GYP-2, PT	FRP-2, GYP-2, PT	GYP-2, PT	GYP-3		
121	LAUNDRY	VSF	RB-2	EXST	GYP-2, PT	GYP-2, PT	EXST	ACT	PL-3	
122	HALL	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
123	JANITOR	EXST	RB-2	FRP-1, GYP-2, PT	FRP-1, GYP-2, PT	FRP-1, GYP-2, PT	EXST, FRP-1	OTS		
124	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	EXST	ACT		
125	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
126	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
128	HALL	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	GYP-1, PT	ACT		
129	ELECT.	EXST	RB-1	GYP-1, PT	EXST	EXST	GYP-1, PT	OTS		
130	I.T.	VSF	RB-1	GYP-1, PT	EXST	EXST	GYP-1, PT	ACT		
131	PRIVATE THERAPY	VSF	RB-1	GYP-1, PT	GYP-1, PT	EXST	EXST	ACT		
132	HALL	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
133	LIBRARY NICHE	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	-	ACT		
134	VESTIBULE	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
135	COATS	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	ACT		
136	COATS	VSF	RB-1	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-1, PT	GYP-3		

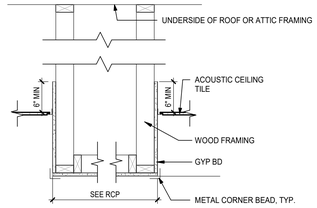
1

LEGEND

FINISH ABBREVIATIONS

ACT	ACOUSTIC CEILING TILE
EXST	EXISTING TO REMAIN
FRP-1, FRP-2	FIBERGLASS REINFORCED PLASTIC
GYP-1	GYPSUM BOARD
GYP-2	MOISTURE RESISTANT GYPSUM BOARD
GYP-3	CEILING GYPSUM BOARD
OTS	OPEN TO STRUCTURE
PL-1	PLASTIC LAMINATE COUNTERTOP FINISH
PL-2	PLASTIC LAMINATE SHELVING FINISH
PL-3	PLASTIC LAMINATE CASEWORK FINISH
PT-1, PT-2, PT-3	PAINT
RB-1	RUBBER BASE
RB-2	MOISTURE RESISTANT RUBBER BASE
VSF	VINYL SHEET FLOORING
WOM	WALK OFF MAT

NOTE: SEE SPECIFICATIONS AND FINISH SUMMARY MATRIX FOR MORE INFORMATION



2 SOFFIT SECTION

A301 (1" = 1'-0")

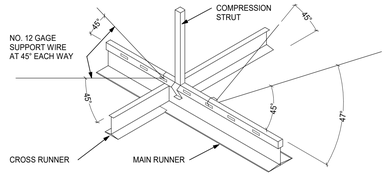
ACT : ACT (WITH SOFFIT)

FINISH SUMMARY MATRIX

CODE	DESCRIPTION	NOTES: REFER TO FINISH PLANS, U.O.N.
PLASTIC LAMINATE CASEWORK	**SECTION 06 4100**	
PL-1	MANUFACTURER: WILSONART PRODUCT: HIGH PRESSURE LAMINATE, STANDARD PATTERN: NATURAL COTTON 4946 FINISH: 60 MATTE FINISH LOCATION: BREAK ROOM #116, COPIES #117, LAUNDRY #121	COUNTERTOP
PL-2	MANUFACTURER: WILSONART PRODUCT: HIGH PRESSURE LAMINATE, STANDARD PATTERN: NATURAL COTTON 4946 FINISH: 60 MATTE FINISH LOCATION: STORAGE NICHES - SEE INTERIOR ELEVATIONS	SHELVING
PL-3	MANUFACTURER: WILSONART PRODUCT: HIGH PRESSURE LAMINATE, STANDARD PATTERN: SAP WALNUT 8221 FINISH: 60 MATTE FINISH LOCATION: BREAK ROOM #116, COPIES #117, LAUNDRY #121	VERTICAL CASEWORK NOTE: PATTERN SHOULD MATCH DIRECTION IN ALL APPLICATIONS
FIBER REINFORCED PLASTIC	**SECTION 06 8316**	
FRP-1	MANUFACTURER: CRANE COMPOSITES PRODUCT: VARIETEX FRP WALL PANELS TEXTURE: LINEN THICKNESS: 0.09" COLOR: MORNING MIST GRAY 636 SIZE: 4' X 10', U.O.N. LOCATION: JANITOR #123	PROVIDE SATIN ANODIZED ALUMINUM J-CHANNEL TRIM PROVIDE MATCHING VERTICAL TRIM
FRP-2	MANUFACTURER: CRANE COMPOSITES PRODUCT: VARIETEX FRP WALL PANELS TEXTURE: LINEN THICKNESS: 0.09" COLOR: SOUTH BEACH IVORY SIZE: 4' X 10', U.O.N. LOCATION: RESTROOMS #108, #119, #120	PROVIDE SATIN ANODIZED ALUMINUM J-CHANNEL TRIM PROVIDE MATCHING VERTICAL TRIM
PLASTER & GYPSUM BOARD	**SECTION 09 2000**	
GYP-1	GYPSUM WALL BOARD	
GYP-2	MOISTURE RESISTANT GYPSUM WALL BOARD	
GYP-3	CEILING GYPSUM BOARD	LOCATED AT RESTROOMS AND ADJUSTABLE SHELVES
ACOUSTICAL CEILINGS	**SECTION 09 5100**	
ACT	MANUFACTURER: ARMSTRONG PRODUCT: 1915HRC SIZE: 24" X 48" THICKNESS: 3/4" LOCATION: ALL ROOMS EXCEPT JANITOR #123 AND RESTROOMS #108, #119, #120 AND ADJUSTABLE SHELVES	

FINISH SUMMARY MATRIX

CODE	DESCRIPTION	NOTES: REFER TO FINISH PLANS, U.O.N.
VINYL SHEET FLOORING	**SECTION 09 6516**	
VSF	MANUFACTURER: MANNINGTON COMMERCIAL PRODUCT: RIDGEWOOD COLOR: VINE MAPLE 4451 SIZE: 12' LOCATION: EVERY ROOM EXCEPT JANITOR CLOSET #123 AND...	
RUBBER BASE	**SECTION 09 6519**	
RB-1	MANUFACTURER: MANNINGTON COMMERCIAL PRODUCT: BURKBASE TYPE TP COLOR: BEACH SAND 030 SIZE: 4" LOCATION: EVERY ROOM EXCEPT RESTROOMS, JANITOR AND...	TYPICAL RUBBER BASE, COVED
RB-2	MANUFACTURER: MANNINGTON COMMERCIAL PRODUCT: IDEALBASE COLOR: BEACH SAND 030 SIZE: 4" LOCATION: ALL RESTROOMS #108, #199, #120, JANITOR #123,...	TYPICAL RUBBER BASE, COVED
WALK OFF MAT	**SECTION 09 6800**	
WOM	MANUFACTURER: MANNINGTON COMMERCIAL PRODUCT: RUFFIAN II COLOR: GREEN GRASSES 4505 SIZE: 24" X 24" LOCATION: VESTIBULE #101	
PAINT AND COATINGS	**SECTION 09 9123**	
PT-1	MANUFACTURER: SHERWIN WILLIAMS COLOR: GREEK VILLA, SW 7551 FINISH: EG-SHEL	GENERAL WALL (U.O.N.), CEILING COLOR
PT-2	MANUFACTURER: SHERWIN WILLIAMS COLOR: WATERSCAPE, SW 6470 FINISH: EG-SHEL	ACCENT WALL COLOR
PT-3	MANUFACTURER: SHERWIN WILLIAMS COLOR: LA LUNA AMARILLA, SW 9016 FINISH: EG-SHEL	ACCENT WALL COLOR

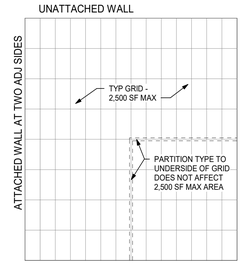


MAXIMUM RECOMENDED LENGTHS FOR VERTICAL STRUTS

EMT CONDUIT	
1/2" EMT CONDUIT 3/4" EMT CONDUIT 1" EMT CONDUIT	UP TO 5'-10" UP TO 7'-8" UP TO 9'-9"
METAL STUD	
SINGLE 1 5/8" METAL STUD (20 GAUGE) BACK TO BACK 1 5/8" METAL STUD (20 GAUGE) SINGLE 2 1/2" METAL STUD (20 GAUGE) BACK TO BACK 2 1/2" METAL STUD (25 GAUGE)	UP TO 12' UP TO 15' UP TO 13'-6" UP TO 15'

3 ACT LATERAL FORCE BRACING

A301 (1/2" = 1'-0")

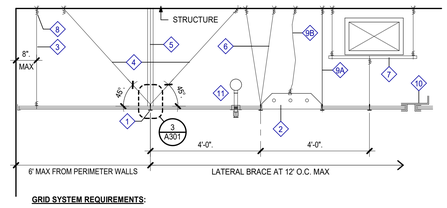


1. EXPANSION ANCHORS MUST COMPLY WITH ICC-ES ACCEPTANCE CRITERIA "AC193".
2. ADHESIVE ANCHORS MUST COMPLY WITH ICC-ES ACCEPTANCE CRITERIA "AC308".
3. POWER ACTUATED FASTENERS (PAF)
   A. MUST HAVE CURRENT ICC-ES REPORT.
   B. INTERIOR WALLS: INCREASE FACTOR OF SAFETY TO 2:1 (50% OF THE LISTED VALUE). REDUNDANCY REQUIRED. MINIMUM 3 PAFs INSTALLED IN ANY APPLICATION. MINIMUM SPACING SHALL BE PER PAF LISTING.
   D. ENGINEERING DESIGN CALCULATIONS MUST BE SUBMITTED.
   E. CANNOT BE USED IN TENSION FOR LOADS EXCEEDING 90 LBS.
4. CEILING AREA LIMIT BASED ON SEISMIC DESIGN CATEGORY C. DESIGN CATEGORY D-F CEILING AREA LIMIT IS 1,000 SF.

SUSPENDED CEILINGS WITH AREAS LESS THAN OR EQUAL TO 144 SF THAT ARE SURROUNDED BY WALLS OR SOFFITS THAT ARE LATERALLY BRACED TO THE STRUCTURE MAY BE ATTACHED TO THE CLOSURE STRIP AT ALL FOUR SIDES.

4 ACT TYP SUSP CLG SYSTEM PLAN

A301 (1" = 1'-0")



GRID SYSTEM REQUIREMENTS:

- AS INDICATED IN SPECIFICATION.

INSTALLATION:

1. MAIN RUNNERS: 4 FEET O.C., SUPPORTED WITH NO. 12 GA. WIRES AT 4 FEET O.C. (OR NO. 10 GA. WIRES AT 5 FEET O.C.). HANGER ATTACHEMENT TO BE DESIGNED TO SUPPORT NOT LESS THAN 200 POUNDS.
2. CROSS RUNNERS: RUNNERS SUPPORTED BY MAIN RUNNERS AND CAPABLE OF CARRYING DESING LOAD WITH DEFLECTION EQUAL TO 1/360 OF ITS SPAN OR LESS.
3. HANGER WIRE SYSTEM TO BEGIN WITHIN 8 INCHES OF PERIMETER WALL.
4. WHERE CEILINGS EXCEED 1000 SF, GRID LATERAL FORCE BRACING IS REQUIRED. GRID LATERAL FORCE BRACING AT 12'-0" OC EACH WAY: BEGIN WITHIN 6 FEET OF PERIMETER AND WITHIN 2 INCHES OF CROSS RUNNER INTERSECTION. PROVIDE FOUR (4) - NO. 12 GA. WIRES SECURED TO MAIN RUNNER AND SPLAYED 80 DEGREES FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM CEILING PLANE.
5. COMPRESSION STRUT AT EACH LATERAL GRID BRACING LOCATION. STRUT TO BE ADEQUATE TO RESIST VERTICAL FORCE COMPONENT INDUCED BY BRACING WIRES. SPACED 12 FEET ON CENTER IN BOTH DIRECTIONS. STRUT TO BE COMPATIBLE WITH SUSPENSION SYSTEM.
6. SYSTEM HANGERS MORE THAN 1:6 OUT OF PLUMB, PROVIDE COUNTER SLOPE HANGERS.
7. WHERE HANGER WIRES ARE NOT POSSIBLE DUE TO OBSTUCTIONS, PROVIDE TRAPEZE OR EQUIVALENT DEVICE. TRAPEZE SUSPENSION FOR SPANS EXCEEDING 48 INCHES TO BE MINIMUM OF BACK-TO-BACK 1-1/4 INCH COLD ROLLED CHANNELS.
8. HANGER WIRE ATTACHMENT TO CONCRETE, STEEL OR CONCRETE OVER METAL DECK MAY BE ATTACHED WITH THE FOLLOWING PAF HILTI X-U EMBED 3/4 " (ESR-2269) OR SIMPSON PDP EMBED 3/4 " (ESR-2138). ANCHOR LOAD HANGER WIRE SHALL NOT EXCEED 90 LBS. PAFs MAY NOT BE USED FOR ANY COMPONENT OF LATERAL FORCE BRACING DETAIL. FOLLOW MANUFACTURER'S DIRECTION FOR EMBEDMENT INTO STEEL.
9. LIGHT FIXTURE SUPPORT
   A. WITH SUSPENSION SYSTEM, NO. 12 GA. HANGERS TO BE ATTACHED TO GRID. MEMBERS WITHIN 3 INCHES OF EACH CORNER OF EACH FIXTURE - TANDEM FIXTURES MAY USE COMMON WIRES.
   B. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. REQUIRE (2) NO. 12 GA. SLACK WIRES FROM FIXTURE HOUSING TO STRUCTURE ABOVE.
   C. LIGHT FIXTURES IN EXCESS OF 56 LBS. TO BE SUPPORTED DIRECTLY FROM STRUCTURE ABOVE, WIRES MUST BE TAUT.
   D. LIGHT FIXTURES TO BE POSITIVELY ATTACHED TO GRID SYSTEM. ATTACHEMENT DEVICE TO CARRY 100 PERCENT OF LIGHT FIXTURE WEIGHT ACTING IN ANY DIRECTION.
10. PROVIDE SEISMIC JOINTS WHERE CEILING AREA EXCEEDS 2,500 SQ. FT. OR PROVIDE FULL HEIGHT PARTITION.
11. WHERE SPRINKLER HEADS AND OTHER PENETRATIONS OCCUR, PROVIDE 2 INCH OVERSIZED ESCUTCHEON OR ADAPTER TO ALLOW AT LEAST 1 INCH MOVEMENT IN ALL HORIZONTAL DIRECTIONS, OR PROVIDE STANDARD ESCUTCHEON AND PENETRATIONS WITH FLEXIBLE HEAD CONNECTIONS.

5 ACT SUSPENDED CEILING NOTES

A301 (3/4" = 1'-0")

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Revisions

No.	Description	Date
1	ADDENDUM 01	Date 1

Stamp

REGISTERED ARCHITECT 5209 JOHN D. VAN CALCAR RENEWAL DATE 12-31-25 STATE OF OREGON

Issuance
Permit Set

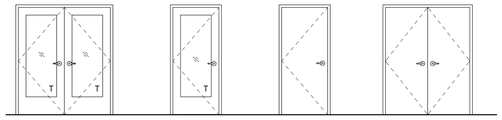
Date
March 22nd, 2024

Project Number
23020

Drawing Title
SECTION, FINISH SCHEDULE AND DETAILS

Sheet No
A301

DOOR TYPES



TYPE A
DOUBLE FULL GLASS LITES

TYPE B
FULL GLASS LITE

TYPE C
FLUSH PANEL

TYPE D
DOUBLE FLUSH PANEL

DOOR AND FRAME SCHEDULE

MARK	DOORS OPENING SIZE WIDTH	HGT.	TYPE	MAT	FIN	FRAMES MAT	FIN	HARDWARE SET	FIRE RATING LABEL (MIN.)	NOTES
101	6'-0"	7'-0"	A	AL	CLEAR ANODIZED	EXISTING	EXISTING	1	N/A	
102A	6'-0"	7'-0"	A	AL	CLEAR ANODIZED	AL	CLEAR ANODIZED	1	N/A	STANDARD 1/4" GLAZING, NOT THERMALLY RATED
102B	6'-0"	7'-0"	A	AL	CLEAR ANODIZED	EXISTING	EXISTING	1	N/A	
103	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	2	N/A	
104	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
105	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
107	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
108	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	4	N/A	
109	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
110	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
111A	6'-0"	7'-0"	A	HM	PAINTED	EXISTING	EXISTING	1	N/A	
111B	6'-0"	7'-0"	A	AL	CLEAR ANODIZED	AL	CLEAR ANODIZED	1	N/A	
112	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
113	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
114	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	2	N/A	
115	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	2	N/A	
116	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	2	N/A	
118	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	2	N/A	
119	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	4	N/A	
120	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	4	N/A	
122	3'-0"	7'-0"	B	HM	PAINTED	HM	PAINTED	1	N/A	
123	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	6	N/A	
124	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
125	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
126	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
127	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	5	N/A	
128A	3'-0"	7'-0"	B	HM	PAINTED	EXISTING	EXISTING	1	N/A	
128B	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	6	N/A	
129	5'-6"	7'-0"	D	WD	STAINED	HM	PAINTED	6	N/A	
130	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	5	N/A	
131	3'-0"	7'-0"	C	WD	STAINED	HM	PAINTED	3	N/A	
132	3'-0"	7'-0"	B	HM	PAINTED	HM	PAINTED	1	N/A	

HARDWARE GROUPS

HARDWARE NOTES
1. FINAL LOCK SETS TO BE COORDINATED WITH OREGON TECH PREFERRED DOOR HARDWARE PROVIDER
2. CONTRACTOR TO CONFIRM ACCESS AND LOCK SETS PRIOR TO ORDERING
3. OREGON TECH WILL PROVIDE CORES FOR ANY DOOR THAT IS LOCKABLE. ALL DOORS WITH LOCKS TO COORDINATE KEYING WITH OREGON TECH.
4. ALL EXTERIOR DOORS NEED HARDWARE SEALS AND THRESHOLDS AS REQUIRED.

OUTSIDE KEYED ACCESS WHEN LOCKED. INSIDE LATCH RELEASE

	QTY	DESCRIPTION
SET - 1 EXTERIOR	3 EACH	HINGE
	1 EACH	CLOSER
	1 EACH	LOCK SET
	1 EACH	WALL STOP
	1 EACH	WEATHER STRIPPING
	1 EACH	THRESHOLD

OUTSIDE KEYED ACCESS WHEN LOCKED. INSIDE TURN/PUSH BUTTON.

	QTY	DESCRIPTION
SET - 2 OFFICE	3 EACH	HINGE
	1 EACH	LOCK SET
	1 EACH	WALL STOP
	1 EACH	SILENCER

BOTH LEVERS ALWAYS UNLOCKED.

	QTY	DESCRIPTION
SET - 3 THERAPY	3 EACH	HINGE
	1 EACH	WALL STOP
	1 EACH	SILENCER
	1 EACH	SOUND GASKETS

INSIDE THUMB TURN LATCH WITH OCCUPANCY INDICATOR.

	QTY	DESCRIPTION
SET - 4 RESTROOM	3 EACH	HINGE
	1 EACH	CLOSER
	1 EACH	LOCK SET
	1 EACH	WALL STOP
	1 EACH	OCCUPANCY INDICATOR
	1 EACH	SILENCER

BOTH LEVERS ALWAYS UNLOCKED.

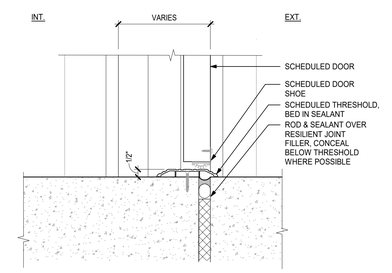
	QTY	DESCRIPTION
SET - 5 CORRIDOR	3 EACH	HINGE
	1 EACH	PASSAGE LOCK SET
	1 EACH	WALL STOP
	1 EACH	CLOSER

OUTSIDE KEYED ACCESS WHEN LOCKED. INSIDE ALWAYS UNLOCKED.

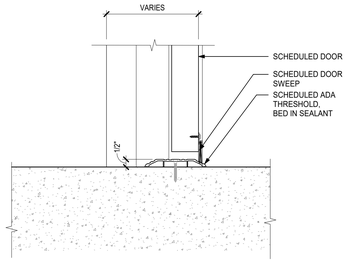
	QTY	DESCRIPTION
SET - 6 STOREROOM	3 EACH	HINGE
	1 EACH	STOREROOM LOCKSET
	1 EACH	WALL STOP
	1 EACH	SILENCER

SHEET NOTES

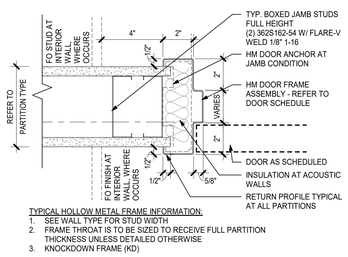
1. "SAFETY GLAZING" SHALL BE PROVIDED IN ALL "HAZARDOUS LOCATIONS" DEFINED IN OSSC.
2. "T" ON FRAME TYPES INDICATES TEMPERED SAFETY GLAZING.
3. VERIFY IN FIELD ALL ROUGH OPENING DIMENSIONS



1 EXTERIOR DOOR THRESHOLD
A801 (3" = 1'-0")

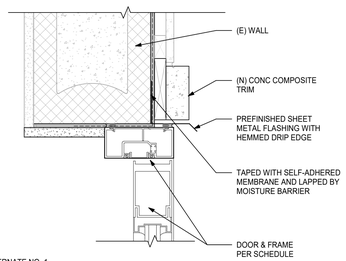


2 INTERIOR DOOR THRESHOLD
A801 (3" = 1'-0")



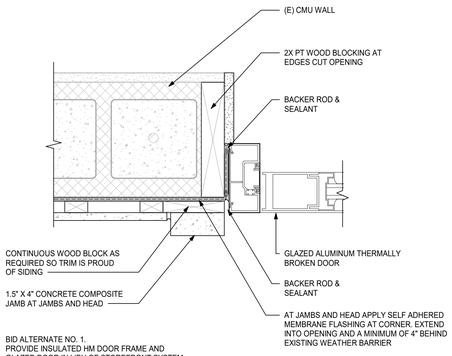
TYPICAL HOLLOW METAL FRAME INFORMATION:
1. SEE WALL TYPE FOR STUD WIDTH
2. FRAME THROAT IS TO BE SIZED TO RECEIVE FULL PARTITION THICKNESS UNLESS DETAILED OTHERWISE
3. KNOCKDOWN FRAME (KD)

3 INTERIOR HM DOOR FRAME JAMB, HEAD SIM
A801 (3" = 1'-0")



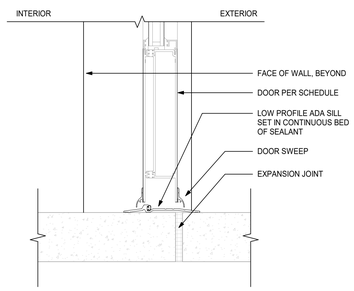
BID ALTERNATE NO. 1.
PROVIDE INSULATED HM DOOR FRAME AND GLAZED DOOR IN LIEU OF STOREFRONT SYSTEM.
SEE DETAIL 8 AND 9 SIMILAR.

5 EXTERIOR DOOR WITH GLASS LITE - HEAD
A801 (3" = 1'-0")



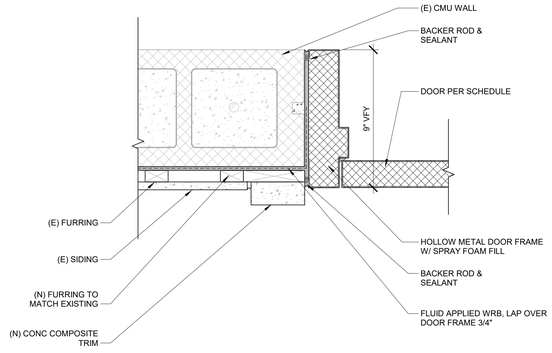
BID ALTERNATE NO. 1.
PROVIDE INSULATED HM DOOR FRAME AND GLAZED DOOR IN LIEU OF STOREFRONT SYSTEM.
SEE DETAIL 8 AND 9 SIMILAR.

6 EXTERIOR DOOR WITH GLASS LITE - JAMB
A801 (3" = 1'-0")

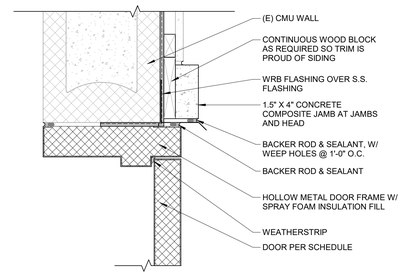


BID ALTERNATE NO. 1.
PROVIDE INSULATED HM GLAZED DOOR IN LIEU OF STOREFRONT DOOR.

7 EXTERIOR DOOR WITH GLASS LITE - SILL
A801 (3" = 1'-0")



8 DOOR 122 JAMB
A801 (3" = 1'-0")



9 DOOR 122 HEAD
A801 (3" = 1'-0")

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DOOR SCHEDULE AND TYPES, DETAILS

Sheet No
A801

MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF	ABOVE FINISHED FLOOR
A/C	AIR CONDITION(ED)
BDD	BACKDRAFT DAMPER
CD	CEILING DIFFUSER
CONT.	CONTINUATION
DB	DECIBEL
(X)	DEMOLISH
DIA	DIAMETER
DG	DOOR GRILLE
DB	DRY BULB
ELECT	ELECTRICAL
EXH	EXHAUST
EF	EXHAUST FAN
(E)	EXISTING
F	FAHRENHEIT
FT	FEET
FLA	FULL LOAD AMPS
HP	HORSEPOWER
IN	INCHES
ID	INSIDE DIAMETER
KW	KILOWATT
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO.	NUMBER
OC	ON CENTER
OBD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS.	POUNDS
PD	PRESSURE DROP
QTY	QUANTITY
(R)	RELOCATE/RELOCATED LOCATION
RET	RETURN
RA	RETURN AIR
RPM	REVOLUTIONS PER MINUTE
R	RISE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T, TEMP	TEMPERATURE
TP	TOTAL PRESSURE
UD	UNDERCUT DOOR
VEL	VELOCITY
V	VOLT
VD	VOLUME DAMPER (HAND OPERATOR)
W	WATT
W/	WITH
W/O	WITHOUT

Control Symbols

- T E — LINE VOLTAGE THERMOSTAT
- T AC-1 — SPACE TEMPERATURE SENSOR/THERMOSTAT

Dampers

- VOLUME DAMPER

Diffusers and Grilles

- 12x12 / 100 CD-1 — DIFFUSER OR GRILLE IDENTIFICATION
- EXHAUST AIR
- RETURN AIR
- RETURN/EXHAUST AIR FLOW
- SUPPLY AIR
- SUPPLY AIR FLOW

Ductwork Fittings

- ACOUSTICALLY LINED DUCT (SIZES SHOWN ARE NET INSIDE)
- CONCENTRIC SQUARE TO ROUND
- CONCENTRIC TRANSITION, RECTANGULAR OR ROUND
- ECCENTRIC TRANSITION, RECTANGULAR OR ROUND
- FLEX DUCT
- FLEXIBLE CONNECTION
- NON-SYMMETRICAL WYE
- RECTANGULAR DUCT DROP
- RECTANGULAR DUCT RISER
- RECTANGULAR MAIN WITH RECTANGULAR BRANCH
- RECTANGULAR MAIN WITH ROUND BRANCH
- RECTANGULAR OFFSET LESS THAN 15%%d
- RECTANGULAR OFFSET MORE THAN 15%%d
- ROUND DUCT DROP
- ROUND DUCT RISER
- ROUND DUCT WITH ROUND BRANCH
- ROUND WYE
- SYMMETRICAL WYE
- MITERED ELBOW WITH TURNING VANES
- RADIUSED ELBOW

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- X — KEYED NOTE
- 30X16 — RECTANGULAR DUCT SIZING
- 30"Ø — ROUND DUCT SIZING

GENERAL MECHANICAL NOTES

A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION OF THE HVAC SYSTEM (IE. SUPPORT, BRACING, ETC.)

B. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS (INCLUDING ALL OTHER TRADES). INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES, THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS. EXTRA PAYMENT WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGRAMMATIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.

C. DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INTERNAL DIMENSIONS. WHEN ACOUSTICAL DUCT LINING IS REQUIRED INCREASE DUCT SIZE AS NECESSARY TO MAINTAIN THE CLEAR INTERNAL DIMENSIONS.

D. DUCT RUNOUTS TO SUPPLY, EXHAUST, AND RETURN GRD'S TO MATCH SIZE OF CONNECTED GRD, UNLESS NOTED OTHERWISE.

E. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.

F. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.

G. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS. TO PREVENT A SPATIAL CONFLICT, AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW, ROUND SPIRAL DUCTWORK, OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.

H. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS. DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.

I. COORDINATE EXACT LOCATIONS AND ELEVATIONS OF ALL SIDEWALL GRILLES WITH ARCHITECT.

J. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.

K. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.

L. PROVIDE CEILING ACCESS PANELS FOR ACCESS TO CONCEALED EQUIPMENT AND OTHER DEVICES. LOCATION OF ACCESS PANELS IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH AS-BUILT CONDITIONS. ALL CEILING PANELS MAY NOT BE INDICATED ON THE MECHANICAL DRAWINGS. SUBMIT PROPOSED ACCESS PANEL LAYOUT TO ARCHITECT DURING PRE-CONSTRUCTION COORDINATION PROCESS FOR REVIEW.

M. VERIFY DIFFUSERS, GRILLES, AND REGISTER, FACTORY FINISH COLOR, MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.

N. PAINT FLAT BLACK ALL VISIBLE INTERIOR PORTIONS OF DUCTWORK.

O. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.

P. PROTECT AND ISOLATE EQUIPMENT STORED ON CONSTRUCTION SITE FROM WEATHER AND DUST CONTAMINATION.

Q. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT AND OTHER WALL MOUNTED SWITCHES (IE LIGHTS). COMPLY WITH ADA REQUIREMENTS.

R. "DEMOLISH" OR "REMOVE": REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.

SHEET INDEX

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Drawing Title
SYMBOL LIST AND GENERAL NOTES - MECHANICAL

Sheet No
M001

FAN SCHEDULE

SYMBOL	LOCATION	AREA SERVED	BASIS OF DESIGN		TYPE	DRIVE	AIR FLOW (CFM)	ESP (IN H20)	MAX RPM	MAX SONES	ELECTRICAL			CONTROLS REF	MAX WT (LBS)	COMMENTS
			MFR	MODEL							VOLTS	PH	WAT TS			
EF-1	RESTROOM 120	RESTROOM 120	GREENHECK	SP-A125	CEILING	DIRECT	100	0.25	1054	0.6	120	1	18	LIGHT SWITCH	18	SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP
EF-2	RESTROOM 119	RESTROOM 119	GREENHECK	SP-A125	CEILING	DIRECT	100	0.25	1054	0.6	120	1	18	LIGHT SWITCH	18	SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP
EF-3	JANITOR 123	JANITOR 123	GREENHECK	SP-A125	CEILING	DIRECT	100	0.25	1054	0.6	120	1	18	TIME CLOCK	18	SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP
EF-4	LAUNDRY 121	LAUNDRY 121	GREENHECK	CSP-A125	INLINE CABINET	DIRECT	100	0.25	969	0.3	120	1	52	TIME CLOCK	17	SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP
EF-5	RESTROOM 120	RESTROOM 120	GREENHECK	SP-A125	CEILING	DIRECT	100	0.25	1054	0.6	120	1	18	LIGHT SWITCH	18	SPEED CONTROLLER, BACKDRAFT DAMPER, WALL CAP
EF-6	STORAGE 130	STORAGE 130	GREENHECK	CSP-A390-VG	INLINE CABINET	DIRECT	350	0.25	1279	1.4	120	1	74	LINE VOLTAGE T-STAT	24	EC MOTOR, BACKDRAFT DAMPER

DIFFUSER, REGISTER AND GRILLE SCHEDULE

SYMBOL	TYPE	FACE	FRAME	DAMPER	FINISH	BASIS OF DESIGN		COMMENTS
						MFR.	MODEL	
CD-1	CEILING SUPPLY DIFFUSER	PERFORATED	LAY-IN	NONE	WHITE	TITUS	PCS	
CD-2	CEILING SUPPLY DIFFUSER	PERFORATED	SURFACE	NONE	WHITE	TITUS	PCS	
CEG-1	CEILING EXHAUST GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS	PAR	
CRG-1	CEILING RETURN GRILLE	PERFORATED	LAY-IN	NONE	WHITE	TITUS	PAR	

OUTSIDE AIR VENTILATION SCHEDULE - EXISTING AC UNIT, EAST

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	DESIGN OSA (CFM)
EXIST. AC UNIT, EAST	OFFICE 103, 114, 115, PRIVATE THERAPY 104, 105, 107, 110, 112, 113	1090	5	5.00	0.06	6	11	120	0.8	151	155
EXIST. AC UNIT, EAST	LARGE THERAPY 111	680	25	5.00	0.06	17	17	126	0.8	157	160
EXIST. AC UNIT, EAST	HALL	375	0	0.00	0.06	0	6	23	0.8	28	30
NOTES:											**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.										345
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.										

OUTSIDE AIR VENTILATION SCHEDULE - EXISTING AC UNIT, WEST

EQUIPMENT TAG	ROOM	Az NET OCCUPIABLE FLOOR AREA (SF)	DEFAULT OCCUPANT DENSITY (#/1000SF)	Rp PEOPLE OUTDOOR AIR RATE (CFM / PERSON)	Ra AREA OUTDOOR AIR FLOW RATE (CFM/SQ FT)	DEFAULT ZONE POPULATION	Pz ACTUAL ZONE POPULATION	Vbz BREATHING ZONE OUTDOOR AIRFLOW (CFM)	EZ ZONE AIR DISTRIBUTION EFFECTIVENESS	Voz ZONE OUTDOOR AIRFLOW (CFM)	DESIGN OSA (CFM)
EXIST. AC UNIT, WEST	TRAINING 118	372	50	5.00	0.06	19	19	117	0.8	147	150
EXIST. AC UNIT, WEST	COPIES 117	155	4	5.00	0.06	1	1	14	0.8	18	20
EXIST. AC UNIT, WEST	BREAK ROOM	230	25	5.00	0.06	6	6	44	0.8	55	55
EXIST. AC UNIT, WEST	PRIVATE THERAPY 124, 125, 126, 131	440	5	5.00	0.06	3	4	46	0.8	58	60
EXIST. AC UNIT, WEST	HALL 122, 128, 132	589	0	0.00	0.06	0	4	35	0.8	44	45
NOTES:											**TOTAL:**
1	BREATHING ZONE OUTDOOR AIRFLOW: Vbz = Rp*Pz + Ra*Az.										330
2	ZONE OUTDOOR AIRFLOW: Voz= Vbz/Ez.										

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SCHEDULES - MECHANICAL

Sheet No
M002

GENERAL SHEET NOTES

A. SEE ARCHITECTURAL DRAWINGS FOR HVAC DEMOLITION NOTES.

B. TWO EXISTING 5-TON ROOFTOP AC UNITS WITH GAS HEAT ARE TO REMAIN.

C. EXISTING DOMESTIC HOT WATER HEATER GAS FLUE IN EXISTING JANITOR CLOSET IS TO REMAIN.

D. PROVIDE NEW PROGRAMMABLE THERMOSTATS TO CONTROL TWO EXISTING ROOFTOP AC UNITS WITH GAS HEAT.

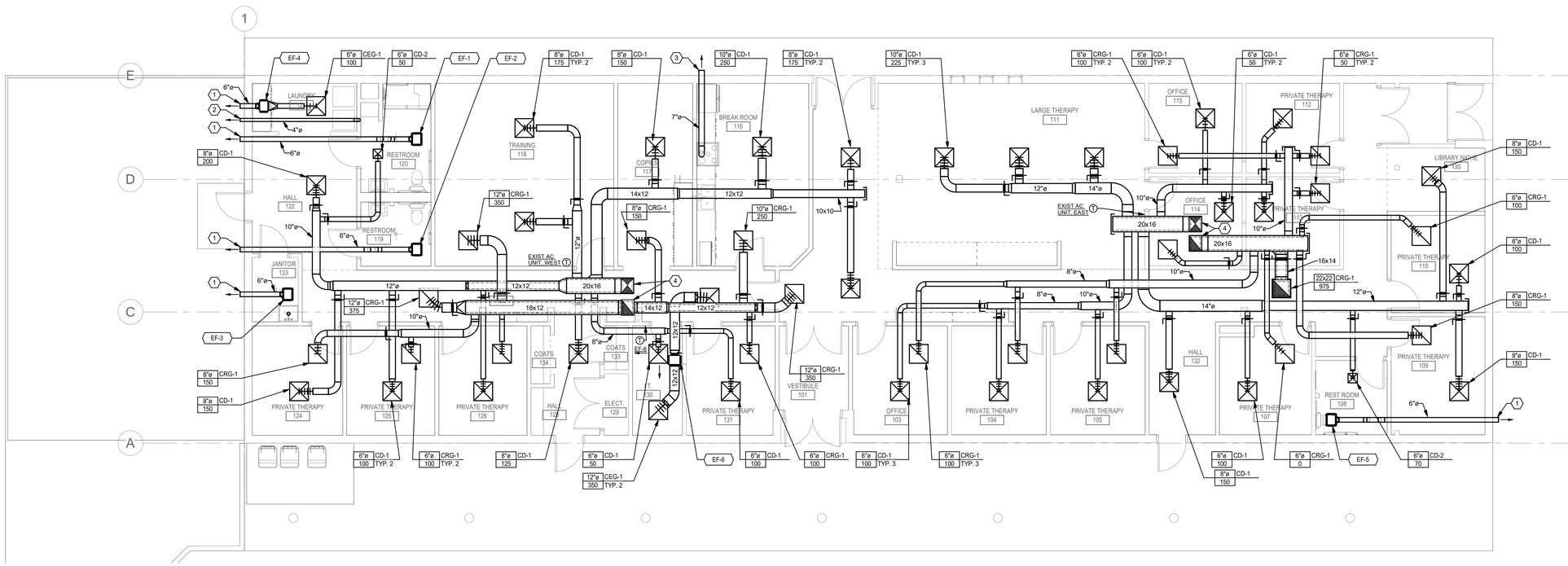
E. PROVIDE AIR FLOW BALANCING INFORMATION FOR TWO EXISTING ROOFTOP AC UNITS PRIOR TO DEMOLITION PER 23 05 93.

F. BALANCE EXISTING AC UNIT SUPPLY FAN TO AIR FLOW EQUAL TO SUM OF SUPPLY GRILLES. BALANCE EXISTING AC UNIT OUTSIDE AIR DAMPER TO AIRFLOW SHOWN IN OUTSIDE AIR VENTILATION SCHEDULE.

G. COORDINATE ELEVATIONS OF ALL EXTERIOR SIDEWALL DUCT TERMINATIONS WITH ARCHITECT.

SHEET KEYNOTES

1. TERMINATE EXHAUST DUCT WITH FACTORY WALL CAP PROVIDED BY FAN MANUFACTURER.
2. TERMINATE DRYER DUCT WITH HOODED WALL CAP WITH BACKDRAFT FLAPPER.
3. TERMINATE RESIDENTIAL EXHAUST HOOD DUCT WITH HOODED WALL CAP WITH BIRD SCREEN.
4. ROUTE LINED 20x16 SUPPLY AND RETURN DUCTS UP TO EXISTING AC UNIT ON ROOF.



1 LEVEL 1 MECHANICAL PLAN - OVERALL

0' 4' 8' 16'

3/16" = 1'-0"

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FLOOR PLAN - MECHANICAL

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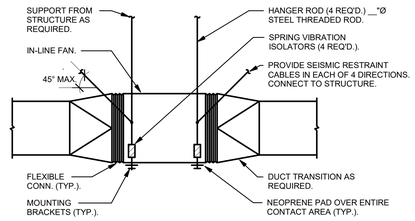
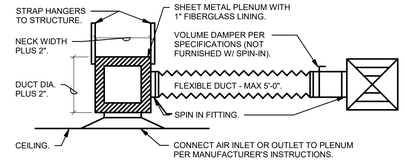


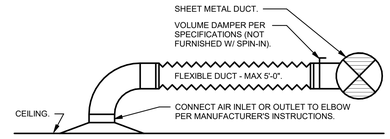
1 IN-LINE FAN

NO SCALE



2 AIR INLET OR OUTLET SQUARE NECK

NO SCALE



3 AIR INLET OR OUTLET ROUND NECK

NO SCALE

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DETAILS - MECHANICAL

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M500

ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
A	AMPERES, AMBER
AHJ	AUTHORITY HAVING JURISDICTION
AIC	AVAILABLE INTERRUPTING CAPACITY
BAS	BUILDING AUTOMATION SYSTEM
CA	CABLE
CAT	CATEGORY
CLG	CEILING
C	CONDUIT, CLOSE, CONTROL
COORD	COORDINATE
CU	COPPER
dB	DECIBEL
(X)	DEMOLISH
DTL	DETAIL
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DWG	DRAWING
EA	EACH
EMT	ELECTRICAL METALLIC TUBING
EL	ELEVATION
E	EMERGENCY
EF	EXHAUST FAN
(E)	EXISTING
FF	FINISH FLOOR
FA	FIRE ALARM
FACP	FIRE ALARM CONTROL PANEL
FMC	FLEXIBLE METAL CONDUIT
FT	FOOT, FEET
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HH	HANDHOLE
HT	HEIGHT
ID	IDENTIFICATION
IN	INCH, INCHES
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IMC	INTERMEDIATE METAL CONDUIT
IG	ISOLATED GROUND
KV	KILOVOLT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
LV	LOW VOLTAGE
MOCP	MAXIMUM OVERCURRENT PROTECTION
mA	MILLIAMPERES
MIN	MINIMUM
MCA	MINIMUM CIRCUIT AMPS
MISC	MISCELLANEOUS
MCC	MOTOR CONTROL CENTER
MT, MTD	MOUNT, MOUNTED
NEC	NATIONAL ELECTRIC CODE
NESC	NATIONAL ELECTRIC SAFETY CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
N	NEUTRAL
(N)	NEW
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
PNL	PANEL
PH	PHASE
PVC	POLY-VINYL-CHLORIDE
PWR	POWER
QTY	QUANTITY
REF	REFERENCE
(R)	RELOCATE
RFI	REQUEST FOR INFORMATION
REQD	REQUIRED
RMC	RIGID METAL CONDUIT
RM	ROOM
SHT	SHEET
SIM	SIMILAR
STD	STANDARD
SPD	SURGE PROTECTION DEVICE
SWBD	SWITCHBOARD
TBD	TO BE DETERMINED
XFMR	TRANSFORMER
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UPS	UNINTERRUPTIBLE POWER SUPPLY
UON	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
V	VOLTS, VOLTAGE
WP	WEATHERPROOF
WG	WIRE GUARD
W/	WITH
W/O	WITHOUT

Connections / Equipment

- VFD — COMBINATION ADJUSTABLE FREQUENCY DRIVE WITH SAFETY DISCONNECT SWITCH. FURNISHED BY DIVISION 23 AND INSTALLED BY DIVISION 26.
- COMBINATION MOTOR STARTER/FUSED DISCONNECT SWITCH
- F — HEAVY DUTY FUSED DISCONNECT SWITCH
- MOTOR CONNECTION
- NON-FUSED DISCONNECT SWITCH
- T — TRANSFORMER
- FSD — FIRE SMOKE DAMPER
- SD — SMOKE DAMPER
- CEILING MOUNTED JUNCTION BOX
- FLOOR MOUNTED JUNCTION BOX
- WALL-MOUNTED JUNCTION BOX

Fire Alarm

- FACP — FIRE ALARM CONTROL PANEL

General

- X / X — DETAIL NUMBER AND SHEET LOCATION
- XX-X / LOCATION — EQUIPMENT IDENTIFICATION
- 1 — KEYED NOTE
- DEMOLISH
- EXISTING WORK
- NEW WORK

Lighting

- EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
- RECESSED 1' X 4' LUMINAIRE
- RECESSED 1' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 2' LUMINAIRE
- RECESSED 2' X 2' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED 2' X 4' LUMINAIRE
- RECESSED 2' X 4' LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT
- WALL MOUNTED LUMINAIRE
- WALL MOUNTED LUMINAIRE CONNECTED TO EMERGENCY/LIFE SAFETY CIRCUIT OR WITH INTEGRAL EMERGENCY BATTERY CONNECTED TO UNSWITCHED CIRCUIT

Miscellaneous

- #10 / B-27,29,31. — BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
- BRANCH PANEL
- CIRCUIT BREAKER
- DRY TYPE TRANSFORMER
- FLUSH WALL MOUNTED BRANCH PANEL
- GB — GROUND BAR
- MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL

Raceways

- CONDUIT CONCEALED IN WALL OR CEILING SPACE
- CONDUIT ROUTED BELOW FLOOR / GRADE
- CONDUIT ELLED DOWN
- CONDUIT ELLED UP
- CONDUIT/WIRING CONTINUATION
- CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
- FLEXIBLE CONDUIT

Switches and Receptacles

- DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS)
  A = ABOVE COUNTER
  B = CLOCK HANGER
  C = FLUSH CEILING MOUNTED
  E = EMERGENCY
  F = ARC FAULT PROTECTED BY BREAKER IN PANEL
  G = GROUND FAULT CIRCUIT INTERRUPTER
  H = HOSPITAL GRADE
  K = CHILD RESISTANT COVER
  L = ISOLATED GROUND
  P = PENDANT MOUNTED WITH CORD GRIPS. VERIFY PENDANT LENGTH
  R1 = HALF SWITCHED BY OCCUPANCY SENSOR RELAY
  R2 = FULLY SWITCHED BY OCCUPANCY SENSOR RELAY
  S = SPLIT WIRED
  T = TAMPER RESISTANT SHUTTERED RECEPTACLE
  U = USB PORT(S)
  W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
- DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE, FLUSH FLOOR
- DOUBLE DUPLEX RECEPTACLE. SEE LETTER CODE LIST AT DUPLEX RECEPTACLE FOR OPTIONS
- EQUIPMENT ELECTRICAL CONNECTION
- SPECIAL PURPOSE RECEPTACLE. LETTER CODE DENOTES RECEPTACLE CONFIGURATION
  LX-XXR = NEMA CONFIGURATION TWIST-LOCK RECEPTACLE
  X-XXR = NEMA CONFIGURATION STRAIGHT BLADE RECEPTACLE
  P = PENDANT MOUNT WITH CORD GRIPS. VERIFY PENDANT LENGTH
  X = COORDINATE RECEPTACLE CONFIGURATION WITH EQUIPMENT BEING SUPPLIED
- CEILING MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  U = ULTRASONIC, 360 DEG RANGE
  H = ULTRASONIC, HALLWAY PATTERN
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR
  P = PASSIVE INFRARED
  D = DUAL TECHNOLOGY
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- WALL MOUNTED OCCUPANCY SENSOR/SWITCH
  S = PASSIVE INFRARED WITH INTEGRAL "OFF" SWITCH
  T = DUAL RELAY PASSIVE INFRARED WITH TWO INTEGRAL "OFF" SWITCHES
  D = PASSIVE INFRARED WITH INTEGRAL DIMMER TO OFF.
  v (LOWERCASE) = VACANCY CONTROL DESIGNATION
- MULTIPLE CHANNEL SURFACE METAL RECEPTACLE RACEWAY WITH LOW VOLTAGE DIVIDERS, LENGTH AND RECEPTACLES AS INDICATED
- PHOTO ELECTRIC SWITCH
  D = CONTINUOUS DIMMING PHOTOCELL
  S = SWITCHED PHOTOCELL
- $ — SINGLE POLE SWITCH
  2 = DOUBLE POLE SWITCH
  3 = THREE-WAY SWITCH
  4 = FOUR-WAY SWITCH
  a THRU z (LOWERCASE) = LUMINAIRE CONTROL DESIGNATION
  D = DIMMER
  F = FAN SPEED CONTROL
  K = KEY OPERATED SWITCH
  L = LIGHTED HANDLE
  M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD
  P = SWITCH WITH PILOT LIGHT
  S = SENTRY SWITCH
  T = INTERVAL TIMER
  W = WEATHERPROOF SWITCH
  V = LOW VOLTAGE SWITCH

Telecommunications

- ▽ — RACEWAY ONLY DATA OUTLET. PROVIDE DOUBLE GANG BACK BOX AND SINGLE GANG ADAPTER PLATE WITH 1" C. AND PULLSTRING TO ACCESSIBLE CEILING SPACE. SEE LETTER CODE LIST AT DATA/TELEPHONE OUTLET FOR OPTIONS.

GENERAL ELECTRICAL NOTES

A. ALL ELECTRICAL MATERIAL AND INSTALLATIONS SHOWN AND/OR SPECIFIED TO BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC 2023.

B. REFER TO ARCHITECTURAL DRAWINGS TO COORDINATE LOCATION AND MOUNTING HEIGHT OF ALL ELECTRICAL DEVICES.

C. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR EXACT LOCATION OF ALL MECHANICAL AND PLUMBING EQUIPMENT.

D. MAXIMUM VOLTAGE DROP OF BRANCH CIRCUITS TO BE 3%. ELECTRICAL CONTRACTOR TO SIZE WIRING TO SUIT.

E. NO WIRE SMALLER THAN #12 AWG SHALL BE USED FOR BRANCH CIRCUIT WIRING.

F. IN FINISHED INTERIOR AREAS RUN ALL CONDUITS CONCEALED UNLESS OTHERWISE NOTED. PAINT ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECTURAL PAINTING SPECIFICATIONS FOR REQUIREMENTS.

G. ALL EXPOSED CONDUIT TO BE RUN PARALLEL TO BUILDING LINES.

H. PROVIDE DEDICATED NEUTRALS FOR ALL BRANCH CIRCUITS UNLESS OTHERWISE NOTED.

I. ALL IN-SLAB OR BURIED CONDUIT TO BE COMPLETE WITH EQUIPMENT GROUNDING CONDUCTOR.

J. ALL EMPTY CONDUITS TO BE COMPLETE WITH PULL WIRE.

K. MC CABLE SHALL NOT BE USED WITHOUT PERMISSION FROM THE ENGINEER.

L. ALL CONDUIT ROUTED IN AREAS SUBJECT TO MECHANICAL DAMAGE TO BE RIGID.

GENERAL LIGHTING NOTES

A. COORDINATE LIGHTING WITH ARCHITECTURAL DRAWINGS PRIOR TO ORDERING TO CONFIRM LUMINAIRES WILL FIT IN INTENDED ARCHITECTURAL FEATURES, CEILING GRIDS, COVES, ETC.

B. COORDINATE LIGHTING INSTALLATION REQUIREMENTS WITH SPRINKLER CONTRACTOR PRIOR TO SPRINKLER LINE INSTALLATION.

C. ALL LIGHT SWITCHES, DIMMERS AND MOTION SENSORS TO CONTROL LIGHTING WITHIN THE ROOM THEY ARE LOCATED IN UNLESS OTHERWISE NOTED.

D. ALL ROOM WALL SWITCHES, DIMMERS AND MOTION SENSORS TO BE SUBORDINATE TO THE LOW VOLTAGE SWITCHING ZONE THEY ARE LOCATED IN.

E. ALL PHOTOCELLS TO CONTROL THE LUMINAIRES WITHIN DAYLIGHT ZONE THEY ARE LOCATED WITHIN.

F. ALL MOTION SENSORS TO BE MOUNTED AT LEAST 3' AWAY FROM MECHANICAL DIFFUSERS.

GENERAL POWER NOTES

A. USE #10 AWG FOR 20A, 120V CIRCUITS LONGER THAN 70'.

B. USE #8 AWG FOR 20A, 120V CIRCUITS LONGER THAN 100'.

SHEET INDEX

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SYMBOL LIST AND GENERAL NOTES - ELECTRICAL

Sheet No

E001

LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	HOUSING	OPTICS	MOUNTING	FINISH	UL/IP RATING	DRIVER LOCATION	DIMMING CONTROL	INITIAL DELIVERED LUMENS	CCT	CRI	RATED LIFE	LM/W	WATTAGE	VOLTAGE	MANUFACTURER	PRE-APPROVED PRODUCTS	REMARKS
'A2'	RECESSED LED LUMINAIRE; 2'L x 2'W x NOMINAL DIMENSIONS	ALUMINUM	WHITE FROST LENS	RECESSED	WHITE	DAMP	INTEGRAL	0-10V	3307	3500K	90	60,000 (L73)	130	29.2	120	METALUX	22FP3235C	
'A2-E'	RECESSED LED LUMINAIRE; 2'L x 2'W x NOMINAL DIMENSIONS	ALUMINUM	WHITE FROST LENS	RECESSED	WHITE	DAMP	INTEGRAL	0-10V	3307	3500K	90	60,000 (L73)	130	29.2	120	METALUX	22FP3235CEL10W	PROVIDE EM BATTERY
'A4'	RECESSED LED LUMINAIRE; 4'L x 2'W x NOMINAL DIMENSIONS	ALUMINUM	WHITE FROST LENS	RECESSED	WHITE	DAMP	<varies>	0-10V	4591	3500K	90	60,000 (L73)	111	41.4	120	METALUX	24FP4735C	
'A4-E'	RECESSED LED LUMINAIRE; 4'L x 2'W x NOMINAL DIMENSIONS	ALUMINUM	WHITE FROST LENS	RECESSED	WHITE	DAMP	INTEGRAL	0-10V	4591	3500K	90	60,000 (L73)	111	41.4	120	METALUX	24FP4735CEL10W	PROVIDE EM BATTERY
'B'	RECESSED LED DOWNLIGHT LUMINAIRE; 5.66"DIA x 14.14"L x 13.08"W NOMINAL DIMENSIONS	ALUMINUM	HIGH REFLECTANCE UPPER REFLECTOR	RECESSED	WHITE	DAMP	INTEGRAL	0-10V	1000	3500K	90	50,000 (L70)	100	10.0	120	PORTFOLIO	LDSQ4C15D010 EU4C10209035 4LBCSSQ1MW	
'C'	SURFACE LINEAR LED LUMINAIRE; 4' NOMINAL DIMENSIONS	STEEL	ACRYLIC LENS	SURFACE	WHITE	DAMP	INTEGRAL	0-10V	3150	3500K	90	100,000 (L70)	105	30.0	120	CREE LIGHTING	LS4-40L-35K-10V-FD	
'SA'	SITE/AREA WALL MOUNTED LED LUMINAIRE; 11.5"W x 7"L x 9"H NOMINAL DIMENSIONS	DIE CAST ALUMINUM	CLEAR SAFETY GLASS	WALL MOUINTED AT 7'-0" A.F.G.	BLACK	WET	INTEGRAL	0-10V	1200	3000K	90	50,000 (L95)	126	10.0	120	LITHONIA LIGHTING WDGE2	WDGE2 LED P1-30K-90CRI-VW-MVOLT-DMG-DBLXD	
'SA-E'	SITE/AREA WALL MOUNTED LED LUMINAIRE; 11.5"W x 7"L x 9"H NOMINAL DIMENSIONS	DIE CAST ALUMINUM	CLEAR SAFETY GLASS	WALL MOUINTED AT 7'-0" A.F.G.	BLACK	WET	INTEGRAL	0-10V	1200	3000K	90	50,000 (L95)	126	10.0	120	LITHONIA LIGHTING WDGE2	WDGE2 LED P1-30K-90CRI-VW-MVOLT-E10WH-DMG-DBLXD	PROVIDE EM BATTERY
'X'	EXIT SIGNS	THERMOPLASTIC	RED LENS	REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING CONDITIONS	BRUSHED ALUMINUM	UL DAMP	INTEGRAL	N/A	N/A	N/A	N/A	N/A	N/A	2.0	120	EVENLITE RAZOR SERIES; ISOLITE, PATHWAY, SURE-LITES TPX, BARRON LIGHTING, OR APPROVED	RZR3-EM-R-U-BA-CN-SD	

NOTES

1 THIS LUMINAIRE SCHEDULE IS NOT COMPLETE WITHOUT A COPY OF THE PROJECT MANUAL CONTAINING THE ELECTRICAL SPECIFICATIONS.

2 DIMMING CONTROL PROTOCOL (0-10VDC, LINE VOLTAGE, DALI, ETC.) COMPATIBLE WITH LIGHTING CONTROL SYSTEM AS SPECIFIED AND SHOWN ON DRAWINGS.

3 PROVIDE +/- 12 INCH ADJUSTABILITY IN AIRCRAFT CABLE LENGTH WHERE USED.

4 COORDINATE ALL CEILING TYPES WITH LUMINAIRE LOCATIONS PRIOR TO ORDERING LUMINAIRES. COORDINATE INSTALLATION WITH REFLECTED CEILING PLAN.

5 SPECIFIED MANUFACTURERS ARE BASIS OF DESIGN. SUBMIT ALTERNATES FOR APPROVAL PRIOR TO BID CLOSE.

6 PROVIDE SUBMITTALS THAT INCLUDE THE LUMINAIRE, LAMP AND DRIVER INFORMATION OF EACH LUMINAIRE, WITH APPLICABLE OPTIONS CLEARLY CHECKED OR HIGHLIGHTED. SUBMITTALS NOT INCLUDING THIS INFORMATION WILL BE RETURNED AS REJECTED BY THE ENGINEER OF RECORD.

7 REMOTE BALLASTS/DRIVERS: UL LISTED FOR THEIR APPLICATION. BALLASTS/DRIVERS MARKED AS UL RECOGNIZED COMPONENT BUT NOT UL LISTED ARE SUBJECT TO REMOVAL AND REPLACEMENT AT NO COST TO OWNER.

8 LABEL ALL REMOTE DRIVERS TO SHOW LUMINAIRE TYPE IDENTIFICATION AND SOURCE CIRCUIT. PROVIDE WIRING BETWEEN REMOTE DRIVER AND LUMINAIRE AS RECOMMENDED BY MANUFACTURER. DO NOT EXCEED MAXIMUM DISTANCE RECOMMENDED BY MANUFACTURER BETWEEN DRIVER AND FURTHEST LUMINAIRE.

LIGHTING AND RECEPTACLE CONTROL SEQUENCE OF OPERATIONS: SPACE BY SPACE

ROOM NAME	OCCUPANCY SENSOR TYPE	LIGHTING CONTROL NETWORK CONNECTED	PHOTOSENSOR CONTROL	RECEPTACLE CONTROL	ALL LUMINAIRES CONFIGURED FOR CONTINUOUS DIMMING	CONTROL FUNCTIONS	PRODUCT BASIS OF DESIGN	REMARKS
VESTIBULES, HALLWAYS, AND COMMONS	PASSIVE INFRARED	NO	NO	NO	YES	AUTO ON/OFF WITH OCCUPANCY SENSOR. NORMAL POWER LOSS WITHIN ZONE TRIGGERS EMERGENCY LUMINAIRES TO GO TO FULL BRIGHTNESS.	ALC, ALCS, IR	
EXTERIOR BUILDING	NONE	NO	NO	NO	YES	AUTO ON/OFF WITH LUTRON TIME CLOCK. NORMAL POWER LOSS WITHIN ZONE TRIGGERS EMERGENCY LUMINAIRES TO GO TO FULL BRIGHTNESS, WHERE APPLICABLE.	ALC, ALCS,	
RESTROOMS, JANITOR, AND LAUNDRY	PASSIVE INFRARED	NO	NO	NO	YES	AUTO ON/OFF WITH OCCUPANCY SENSOR. NORMAL POWER LOSS WITHIN ZONE TRIGGERS EMERGENCY LUMINAIRES TO GO TO FULL BRIGHTNESS.	ALC, ALCS, IR	
OFFICE, PRIVATE THERAPY, TRAINING ROOM, AND COPIES	PASSIVE INFRARED	NO	NO	NO	YES	MANUAL ON/OFF AND DIMMING WITH WALL DIMMER. AUTO OFF WITH OCCUPANCY SENSOR. AUTO DIMMING WITHIN DAYLIGHT ZONES WITH PHOTOCELL WHERE INDICATED.	ALC, ALCS(x2), DM, IR, R	
BREAK ROOM	PASSIVE INFRARED	NO	NO	NO	YES	MANUAL ON/OFF AND DIMMING WITH WALL DIMMER. AUTO OFF WITH OCCUPANCY SENSOR. AUTO DIMMING WITHIN DAYLIGHT ZONES WITH PHOTOCELL WHERE INDICATED. NORMAL POWER LOSS WITHIN ZONE TRIGGERS EMERGENCY LUMINAIRES TO GO TO FULL BRIGHTNESS.	ALC, ALCS(x2), DM, IR, R	
ALL OTHER ROOMS	PASSIVE INFRARED	NO	NO	NO	YES	MANUAL ON/OFF AND DIMMING WITH WALL DIMMER. AUTO OFF WITH OCCUPANCY SENSOR. AUTO DIMMING WITHIN DAYLIGHT ZONES WITH PHOTOCELL WHERE INDICATED.	ALC, ALCS, DM, IR	

PRODUCT BASIS OF DESIGN LEGEND

DM - DIMMING WALL SWITCH - LUTRON PICO 3 BUTTON WITH RAISE LOWER AND PRESET WITH WALL MOUNT KIT - UPJ2-3BRL-xx-L01

IR - CEILING MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR - ULRF2-OCR2B-P-WH

PC - WIRELESS DAYLIGHT SENSOR - LRF2-DCRB-WH

SC - SCENE SELECTION WALL STATION LUTRON PICO 4 BUTTON CONTROLLER WITH WALL MOUNT KIT - PJ2-4B-WH-xx

EM - EMERGENCY AREA LIGHTING CONTROLLER - LUTRON VIVE EMERGENCY POWERPACK WITH 0-10V DIMMING - RMJS-8T-DV-B-EM

R - HUBBELL HEAVY DUTY CONTROL UNIT - CU300HDU-CPN6814

ALC - AREA LIGHTING CONTROLLER - LUTRON VIVE POWERPACK WITH 0-10V DIMMING - URMJS-8T-DV-B

ELV - VIVE POWPAK PHASE SELECT DIMMING - RMJS-PNE-DV

ALCS - VIVE POWPAK 24V CONTACT CLOSURE - URMJS-CCO1-24B

GENERAL NOTES:

1. EMERGENCY LIGHTING DIMS/ON-OFF WITH NORMAL LIGHTING UNLESS NORMAL POWER IS LOST THEN EMERGENCY LUMINAIRES ARE TO TURN ON AND GO TO FULL BRIGHTNESS.

2. EXIT SIGNS TO BE UNSWITCHED.

3. CONTRACTOR TO SUPPLY AND INSTALL LUTRON VIVE WIRELESS HUBS TO CONTROL ALL LIGHTING INTERIOR AND EXTERIOR TO THE BUILDING. LOCATIONS ARE TO BE DETERMINED BY MANUFACTURER.

4. ALL LUMINAIRE CONTROL MODULES AND AREA CONTROL MODULES ARE TO BE HARDWIRE AND INSTALLED WITHIN CONCEALED ACCESSIBLE LOCATIONS SUCH AS ABOVE T-BAR CEILINGS OR WITHIN SERVICE ROOMS.

5. CUSTOM SCENE BUTTONS ARE TO BE SELECTED BY OWNER PRIOR TO ORDERING.

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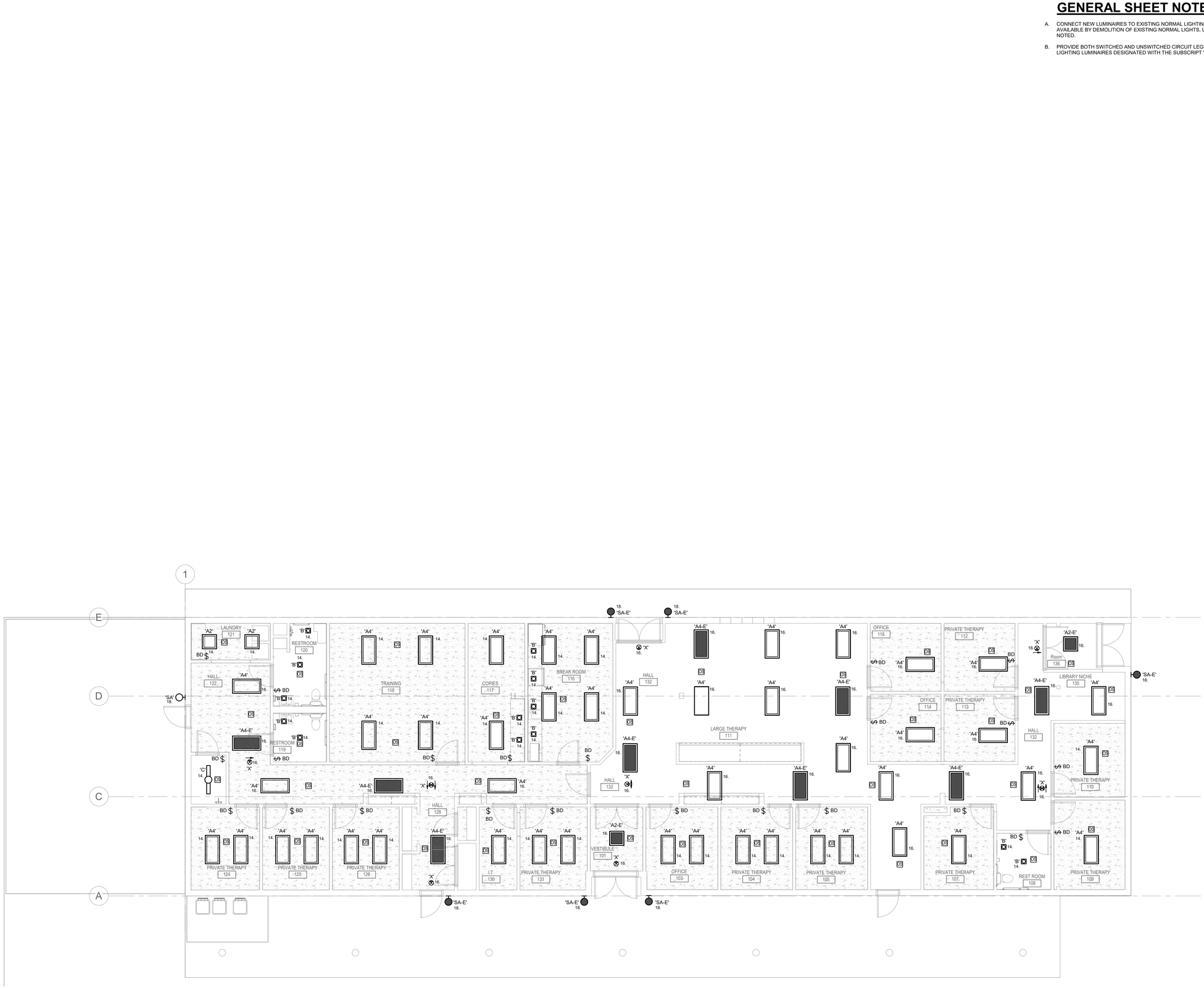
Drawing Title
LUMINAIRE SCHEDULE & SEQUENCE OF OP.

Sheet No
E002

GENERAL SHEET NOTES

A. CONNECT NEW LUMINAIRES TO EXISTING NORMAL LIGHTING CIRCUIT MADE AVAILABLE BY DEMOLITION OF EXISTING NORMAL LIGHTS, UNLESS OTHERWISE NOTED.

B. PROVIDE BOTH SWITCHED AND UNSWITCHED CIRCUIT LEGS FOR EMERGENCY LIGHTING LUMINAIRES DESIGNATED WITH THE SUBSCRIPT 'EM'.



1 LEVEL 1 LIGHTING PLAN - OVERALL

0' 4' 8' 16'

3/16" = 1'-0"

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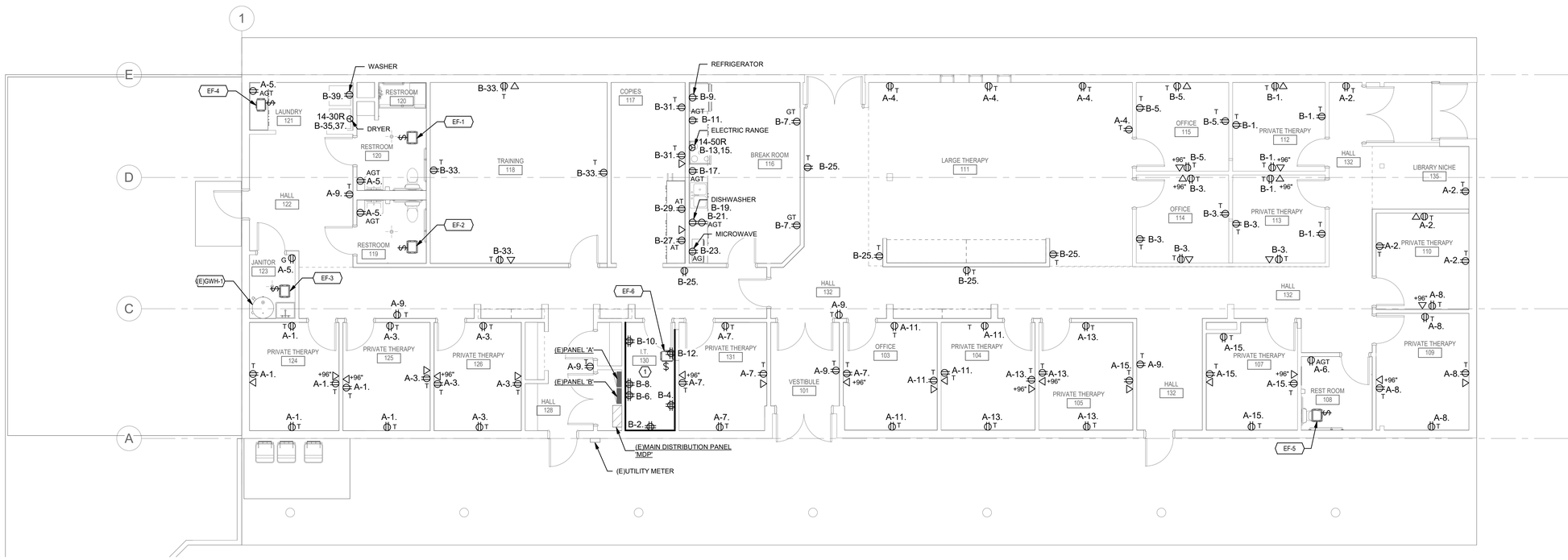
Drawing Title
CEILING PLAN - LIGHTING

Sheet No
E201

SHEET KEYNOTES

1. BOND OFOI DATA RACK USING ONE #6 INSULATED BOUNDING CONDUCTOR BETWEEN TWO POSTS DATA RACK AND MAIN GROUND BAR AT ELECTRICAL CLOSET.



1 LEVEL 1 POWER PLAN - OVERALL

0' 4' 8' 16'

3/16" = 1'-0"

NORTH

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Drawing Title
FLOOR PLAN - POWER

Sheet No
E301

DISTRIBUTION PANELBOARD: MDP

MAIN LUG ONLY | **MOUNTING**
BUS AMPACITY: 400 A | **ENCLOSURE:**
SERVICE: 120/240 V, 1PH, 3 WIRE | **LOCATION:**
AIC RATING: SEE ONE-LINE DIAGRAM | **SUPPLY FROM:**

CKT	LOAD DESCRIPTION	Number of Poles	FRAME SIZE	TRIP RATING	Load (VA) A	Load (VA) B	NOTES
1,2	PANEL 'A'	2	225 A	150 A	15207.6	15540.0	
3,4	PANEL 'B'	2	400 A	250 A	18757.6	20322.2	
5,6	(E)MECHANICAL EQUIPMENT	2	100 A	20 A	5760.0	5760.0	

Load Type Definitions:
Motor (125% largest Motor + 100% remaining motor)
R= Receptacles (to 10kVA 100%, over 10kVA 50%)
E= Existing Load 30-day metered (125%)
EL= Elevator (Demand as per NEC Table 620.14)
K = Kitchen (Demand as per NEC Table 220.56)
G = General Load (Non-Continuous)(100%)
C = Continuous Load (125%)
L = Lighting (125%)
W=Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H=Heating (100%)
EV = Electric Vehicle Charging

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
L	2639.8	125.00%	3299.8		
Motor	11667.6	124.68%	14547.6	**Total Connected Load:**	81347.4
R	16380.0	80.53%	13190.0	**Total NEC Demand:**	81697.4
G	18980.0	100.00%	18980.0	**Total Connected Current:**	339 A
Spare	31680.0	100.00%	31680.0	**Total NEC Demand Current:**	340 A

PANELBOARD: A

MAIN LUG ONLY | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 150 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/240 V, 1PH, 3 WIRE | **LOCATION:**
FOR AIC RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** MDP

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	Load (VA) B	Load (VA) A	Load (VA) B	Note	Pole	C.B.	Type	Description/Location	CKT
1	R PRIVATE THERAPY 124,125	R	20 A	1		1,080		900			1	20 A	R	R R PRIVATE THERAPY 110, 111	2
3	R PRIVATE THERAPY 125,126	R	20 A	1			1,080		720		1	20 A	R	R R PRIVATE THERAPY 111	4
5	R RESTROOM 129, 120, JANITOR...	R	20 A	1		900		180		1	1	20 A	R	R RR 108	6
7	R PRIVATE THER. 131,OFFICE 103	R	20 A	1			900		900	1	1	20 A	R	R PRIVATE THERAPY 109, 110	8
9	R HALL122, 132, VEST 101	R	20 A	1		1,080		0			1	20 A	--	(E)SPARE BREAKER	10
11	R PRIVATE THER. 104,OFFICE 103	R	20 A	1			900		0		1	20 A	--	(E)SPARE BREAKER	12
13	R PRIVATE THERAPY 104,105	R	20 A	1	1	900		0			1	20 A	--	(E)SPARE BREAKER	14
15	R PRIVATE THERAPY 105,107	R	20 A	1			900		0		1	20 A	--	(E)SPARE BREAKER	16
17	(E)FURNACE	--	60 A	2		5,040		5,040			2	60 A	--	(E)FURNACE	18
19	--	--	--	--	--		5,040		5,040	--	--	--	--	--	20
21	(E)BUSSED SPACE	--	--	1		--		88		1	1	15 A	Motor	EF-1,2,4	22
23	(E)BUSSED SPACE	--	--	1			--		60		1	15 A	Motor	EF-3,5,6	24
	Total Connected load Ph. A					127 A		Panel...		30.7 kVA				128.1 A	
	Total Connected load Ph. B					130 A		Total Demand...		30.5 kVA				127.3 A	
						0 A									

Notes:
1. PROVIDE NEW BREAKER AT EXISTING PANEL.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining motors)
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table...
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)
EV = Electric Vehicle Changer

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
Motor	147.6	108.74%	160.5		
R	10440.0	97.89%	10220.0	**Total Connected Load:**	30747.6 VA
Spare	20160.0	100.00%	20160.0	**Total NEC Demand:**	30540.5 VA
				Total Connected Current:	128.1 A
				Total NEC Demand Current:	127.3 A

PANELBOARD: B

MAIN LUG ONLY | **MOUNTING:** SURFACE | **Accessories:**
BUS AMPACITY: 250 A | **ENCLOSURE:** TYPE 1
EQUIPMENT RATING: 120/240 V, 1PH, 3 WIRE | **LOCATION:**
FOR AIC RATING SEE ONE-LINE DIAGRAM | **SUPPLIED FROM:** MDP

CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA) A	Load (VA) B	Load (VA) A	Load (VA) B	Note	Pole	C.B.	Type	Description/Location	CKT
1	R PRIVATE THERAPY 112, 113	R	20 A	1		1,080		500			1	20 A	G	R IT 130	2
3	R PRIVATE THER. 113 & OFFICE...	R	20 A	1			1,080		500		1	20 A	G	R IT 130	4
5	R OFFICE 115	R	20 A	1		720		500			1	20 A	G	R IT 130	6
7	R BREAK ROOM	R	20 A	1			360		500		1	20 A	G	R IT 130	8
9	G REFRIGERATOR	G	20 A	1	1	1,200		500			1	20 A	G	R IT 130	10
11	R BREAK ROOM 116	R	20 A	1			180		500		1	20 A	G	R IT 130	12
13	G RANGE	G	50 A	2	1	4,800		1,378			1	20 A	L	L LIGHT	14
15	--	--	--	--	--		4,800		1,192		1	20 A	L	L LIGHT	16
17	R BREAK ROOM 116	R	20 A	1		180		70			1	20 A	L	L EXTERIOR LIGHT	18
19	G DISHWASHER	G	20 A	1	1		1,200		0		1	20 A	--	(E)SPARE BREAKER	20
21	R BREAK ROOM 116	R	20 A	1		180		0			1	20 A	--	(E)SPARE BREAKER	22
23	G MICROWAVE	G	20 A	1			1,800		0		1	20 A	--	(E)SPARE BREAKER	24
25	R HALL 132	R	20 A	1		900		0			1	20 A	--	(E)SPARE BREAKER	26
27	R COPIES 117 COPY	G	20 A	1			800		0		1	20 A	--	(E)SPARE BREAKER	28
29	R COPIES 117	R	20 A	1		180		0			1	20 A	--	(E)SPARE BREAKER	30
31	R COPIES 117	R	20 A	1			360		1,920		2	20 A	--	(E) LOAD	32
33	R TRAINING 118	R	20 A	1		720		1,920		--	--	--	--	--	34
35	G DRYER	G	30 A	2	1		90		1,920		2	20 A	--	(E) LOAD	36
37	--	--	--	--	--	90		1,920		--	--	--	--	--	38
39	G WASHER	G	20 A	1	1		1,200		1,920		2	20 A	--	(E) LOAD	40
41	(E)SPARE BREAKER	--	20 A	1		0		1,920		--	--	--	--	--	42
	Total Connected load Ph. A					156 A		Panel...		39.1 kVA				162.8 A	
	Total Connected load Ph. B					169 A		Total Demand...		39.7 kVA				165.6 A	
						0 A									

Notes:
REPLACE EXISTING BREAKER WITH NEW GFCI BREAKER.

Load Type Definitions:
Motor (125% largest Motor + 100% remaining motors)
R = Receptacles (to 10kVA100%, over 10 kVA 50%)
E = Existing Load 30-day metered (125%)
K = Kitchen (Demand as per NEC Table...
G = General Load (Non-continuous) (100%)
EL = Elevator (Demand as per NEC Table...
C = Continuous Load (125%)
L = Lighting (125%)
W = Water Heater (125%)
X = X-Rays (Demand per NEC 660.6)
H = Heating (100%)
EV = Electric Vehicle Charger

Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals	
L	2639.8	125.00%	3299.8		
G	18980.0	100.00%	18980.0	**Total Connected Load:**	39079.8 VA
R	5940.0	100.00%	5940.0	**Total NEC Demand:**	39739.8 VA
Spare	11520.0	100.00%	11520.0	**Total Connected Current:**	162.8 A
				Total NEC Demand Current:	165.6 A

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

SYMBOL	DESCRIPTION	LOCATION	VOLTS	PH	LOAD(VA)	MOCP	CIRCUIT NUMBER	WIRE / CONDUIT	NOTES
EF-1	EF-1	RESTROOM 120	120	1	18.0	15	A-22	202	
EF-2	EF-2	RESTROOM 119	120	1	18.0	15	A-22	202	
EF-3	EF-3	JANITOR 123	120	1	18.0	15	A-24	202	
EF-4	EF-4	LAUNDRY 121	120	1	51.6	15	A-22	202	
EF-6	EF-6	IT 130	120	1	24.0	15	A-24	202	
EF-6	EF-6	RESTROOM 108	120	1	18.0	15	A-24	202	

GENERAL MECHANICAL EQUIPMENT CONNECTION NOTE:

A. THE ABOVE INFORMATION IS FOR A SPECIFIC MANUFACTURER. ACTUAL MANUFACTURER FOR EQUIPMENT MAY BE DIFFERENT. COORDINATE WITH MECHANICAL EQUIPMENT SUBMITTALS FOR LOADS AND OVER CURRENT PROTECTION REQUIREMENTS PRIOR TO INSTALLATION OF WIRING.

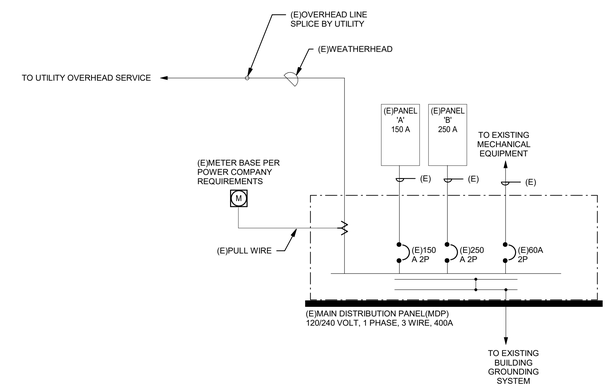
B. MOCP = MAXIMUM OVER CURRENT PROTECTION.
MCA = MINIMUM CIRCUIT AMPACITY

C. PROVIDE DISCONNECTING MEANS FOR EACH ITEM OF EQUIPMENT LISTED IN THE SCHEDULE ABOVE, EXCEPT AS SPECIFICALLY NOTED OTHERWISE IN SCHEDULE NOTES, BELOW.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

WIRE/CONDUIT SCHEDULE

202 2 #12 CU, 1 #12 CU GND., IN 3/4" C.



1 PARTIAL ONE LINE DIAGRAMS - ELECTRICAL

NO SCALE

GENERAL SHEET NOTES

A. EXISTING PANEL CONNECTIONS ARE BASED ON LIMITED SITE OBSERVATION. CONTRACTOR TO VERIFY ACTUAL PANEL CONNECTIONS.

B. CONTRACTOR TO TEST EXISTING GROUND SYSTEM AND PATH ARE EFFECTIVE GROUNDING PATH PER NEC AND PROVIDE RESULT TO OWNER AND ENGINEER FOR REVIEW.

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Revisions

No.	Description	Date

Stamp
REGISTERED PROFESSIONAL ENGINEER
OREGON
MARCH 12, 2010
SCOTT ROSS BARGHOLZ
EXPIRES: 12/31/25

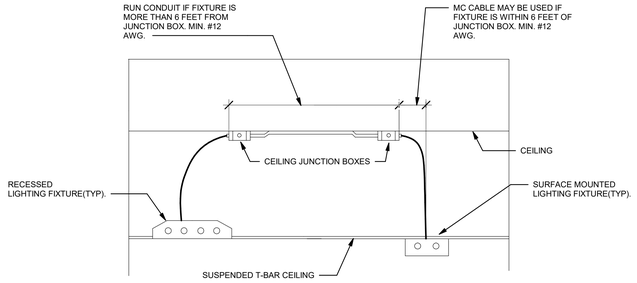
Issuance
Permit Set

Date
APR 10TH, 2024

Project Number
2023-1255

Drawing Title
ONE LINE DIAGRAMS & SCHEDULES - ELECTRICAL

Sheet No
E501

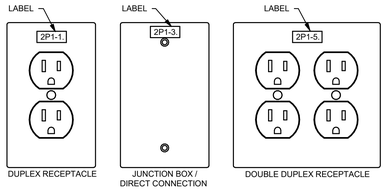


DETAIL NOTES:

(1) MC CABLE IS ONLY PERMITTED FOR FIXTURE DROPS. DO NOT LOOP MC CABLE FROM ONE FIXTURE TO ANOTHER.

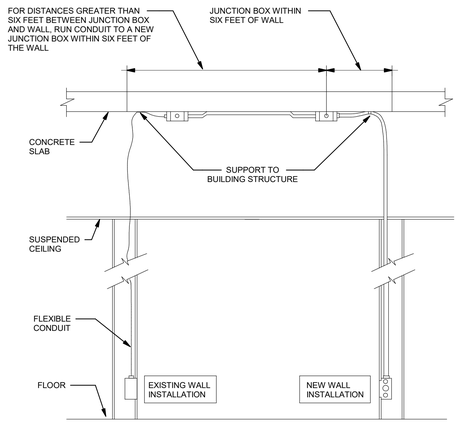
1 LIGHTING DROP - DETAIL

NO SCALE



2 OUTLET LABELING

NO SCALE

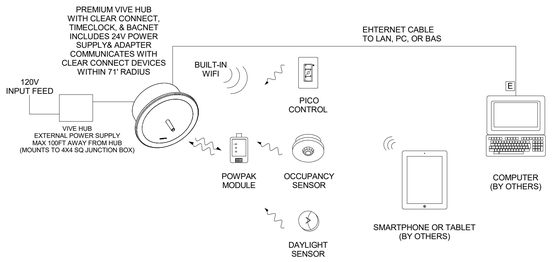


GENERAL DETAIL NOTES:

1. NEW WALL INSTALLATION RUN CONDUIT FROM JUNCTION BOX DOWN TO FIRST DEVICE.
2. EXISTING WALL INSTALLATION RUN FLEX OR MC CABLE FROM JUNCTION BOX DOWN TO DEVICE.
3. ALL CONDUITS ARE TO BE DIRECTLY SUPPORTED FROM SLAB.
4. COORDINATE ROUTE WITH OTHER TRADES TO AVOID CONFLICTS WITH ACCESS.

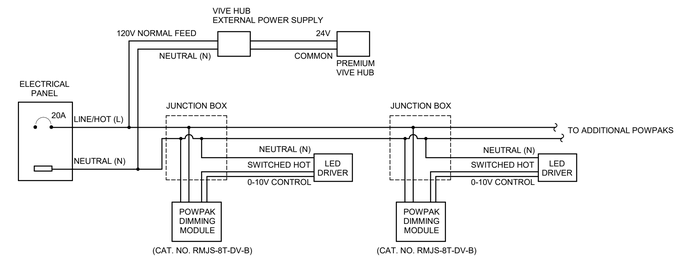
3 POWER DROP DETAIL

NO SCALE



4 TYPICAL NETWORKED LUTRON VIVE SYSTEM COMPONENT CONNECTIVITY DIAGRAM

NO SCALE



5 LUTRON VIVE SYSTEM LIGHTING CONTROL DIAGRAM

NO SCALE

DATE 4/9/2024 11:38:15 AM
FILE PATH:C:\Users\sepidehs\OneDrive - Interface Engineering, Inc\Documents\23020 ABA Clinic MEP R23_sepidehsEYQ0k.rvt

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Revisions

No.	Description	Date

Stamp

REGISTERED PROFESSIONAL ENGINEER
OREGON
MARCH 12, 2009
JEFF ROSS BARGHOLZ

EXPIRES: 12/31/25

Issuance
Permit Set

Date
APR 10TH, 2024

Project Number
2023-1255

Drawing Title
DETAILS - ELECTRICAL

Sheet No
E700

1 GENERAL

1.1 The general requirements, instructions to bidders, this specification and any addenda hereto form part of the contract documents and shall be read in conjunction with them. Work is to include the furnishing of all labor and materials unless specifically noted otherwise to complete and put into operating condition all electrical systems as indicated on the drawings and specified herein.

2 STANDARD OF MATERIAL AND WORKMANSHIP

2.1 All materials are to be new and of the quality specified and are to be UL listed or CSA approved. Where equipment or materials are specified by technical description only, they shall be of the best commercial quality obtainable for the purpose.

2.2 Qualified tradesmen shall execute all work in a neat and workmanlike manner. Electrical trade shall keep a competent foreman and necessary assistants all satisfactory to the engineer on the job during the progress of the work.

3 FIRE PROTECTION AND SMOKE SEALING

3.1 Where cables, conduits, bus ducts or similar electrical equipment pass through fire rated assemblies such as floors, walls and ceilings, the fire rating of these assemblies shall be maintained by using engineer approved and UL listed firestop materials. Provide manufacturer literature showing that the proposed firestop system is a UL listed system for the proposed application.

3.2 Where cables, conduits, bus ducts or similar electrical equipment pass through smoke rated assemblies such as floors, walls and ceilings, the smoke rating of these assemblies shall be maintained by using engineer approved and UL listed materials. Provide manufacturer literature showing that the proposed system is a UL listed system for the proposed application.

3.3 The systems used to comply with the smoke sealing and fire protection requirements shall be installed as per the manufacturer recommendations. The manufacturer representative shall witness and confirm that the system has been installed in compliance with manufacturer recommendations and the UL listing for the specific installation.

3.4 This contractor shall provide two letters to the engineer at the completion of the job as follows:

.1 A letter on the company official letterhead signed by an official of the contracting company with signing authority stating that the systems have been installed as per the manufacturer recommendations.

.2 A letter on the company official letterhead signed by an official of the manufacturer representative company with signing authority stating they have inspected the systems and that the systems have been installed as per manufacturer recommendations and the UL listing for the specific installations.

3.5 This contractor shall allow for all costs relating to the installation of sealing and fire protection materials for electrical installations, witnessing by the manufacturer representatives and preparation of the letters.

4 FLAME RATING OF CABLES

4.1 Cables not installed in enclosed conduit shall be minimum CMP/FT6 rated. Typical examples are: cables in cable tray and cables used for grounding cable trays.

5 UNIFORMITY OF EQUIPMENT

5.1 Unless otherwise specifically called for in the specifications, uniformity of manufacture shall be maintained for any particular item throughout the building.

6 DRAWINGS AND SPECIFICATION

6.1 The drawings and specifications are complementary each to the other and what is called for by one shall be binding as if called for by both.

6.2 Should any discrepancy appear between the drawings and specifications which leaves the electrical trade in doubt as to the true intent and meaning of the plans and specifications, a ruling shall be obtained from the Engineer. If this is not done, it will be assumed that the most expensive alternate has been allowed for.

7 CODES, PERMITS AND INSPECTION

7.1 The installation shall comply with the requirements of the currently adopted edition of the National Electrical Code and the regulations of the Authority Having Jurisdiction.

7.2 The electrical trade shall obtain all permits required and display them in the electrical room.

8 EXAMINATION OF THE SITE

8.1 Prior to submitting this bid, the electrical trade is to carefully examine the site and ascertain all conditions, which will affect the electrical trade. No extras will be allowed for work resulting from conditions that would have been evident upon a thorough examination of the site.

9 CLEAN UP

9.1 The electrical trade and subtrades are to at all times during construction, keep the site free of all debris, boxes, packing, etc., resulting from work of this trade.

9.2 At the completion of the work, the electrical installation shall be left in a clean finished condition to the satisfaction of the engineer.

9.3 All luminaries and electrical devices are to be washed, cleaned of grease, dirt and lint as required.

10 SETTING OUT OF THE WORK

10.1 The electrical trade is responsible for correcting all work-completed contrary to the intent of the drawings and specifications and bear all cost for same. Where the intent of the drawings and specifications is not clear, the electrical contractor is to obtain the clarification of the engineer before proceeding with the work.

10.2 The electrical trade is to give the work personal supervision, lay out their own work, do all necessary leveling and measuring or employ a competent engineer to do so. Figures, full size and detail drawings shall take precedence over scale measurements.

10.3 Where any equipment supplied by the electrical trade must be built in with the work of other contractors, this contractor is responsible for the supplying of the equipment to be built in or measurements to allow necessary openings to be left so as not to hold up the work.

10.4 Electrical trade is responsible for any damage caused the owner or any of the other trades by improper location or carrying out of his work.

11 LOCATION OF OUTLETS

11.1 Engineer reserves the right to change location of outlets to within ten (10) feet of points indicated on plans without extra charge providing electrical trade is advised prior to installation.

12 CUTTING AND PATCHING

12.1 The Contractor is responsible for all cutting and patching required for the electrical installation. Structural members are not be cut without the consent of the structural engineer.

12.2 Where work by the electrical trade damages work of other trades, the electrical trade shall repair and make good such damage to the satisfaction of the trade concerned and the Engineer.

13 ACCESS DOORS

13.1 Number of access doors to be kept to an absolute minimum and to be used only with the permission of the Engineer.

13.2 Where access is required to pullboxes and junction boxes, these boxes are to be located in removable type ceiling areas where possible or adjacent to recessed luminaires.

13.3 Where it is absolutely impossible to service certain equipment through removable type ceilings or recessed luminaires and where special permission has been obtained from the Engineer, Division 26 to supply and install access doors required for servicing of such work. Access doors to be complete with necessary frames and hinged doors held closed with captive type studs. Access panels to be of not less than 14 gauge MDF, prime coated and painted on the job to match the wall or ceiling finish or as requested by the Architect.

14 PAINTING AND FINISHES

14.1 All electrical fittings, supports, hanger rods, pullboxes, channel frames, conduit racks, outlet boxes, brackets, clamps, etc., are to have galvanized finish or paint finish over corrosion-resistant primer.

14.2 All panelboards are to be factory finished with spray-on air dry enamel. All enamel shall be applied over corrosion resistant primer. Matte or flat type finish paint will not be accepted. All panels or similar factory finished units that are scratched or marked during installations are to be touched up with matching spray on dry lacquer and if required to provide satisfactory job are to be completely refinished.

15 SHOP DRAWINGS

15.1 Electrical trade is to submit to the Engineer for approval, shop drawings of electrical components as requested in relevant specification sections.

15.2 All drawings are to be submitted electronically in PDF format.

15.3 The Engineer's review of shop drawings is for general design only and does not relieve the electrical trade or suppliers from their responsibility for errors, proper fitting, construction of the work and furnishing of materials. The review is not to be construed as approving departures from the contract document requirements if such departures are not specifically noted in a covering letter accompanying such drawings. Electrical trade is responsible for verifying all dimensions.

16 RECORD PLANS

16.1 Maintain at site at least one set of drawings for recording "As-constructed" conditions. Electrical trade is to accurately record on this set of plans, day by day, all outlets, conduit, luminaires, equipment as actually installed on the job. Any changes to the contract work are to be similarly recorded.

16.2 As-built drawings shall be clearly marked in red including all changes to the original bid drawings covered by addenda, change orders, field changes, Job conditions, etc.

16.3 At completion of project, input changes to original project on CAD Drawings or within the Revit model and make one set of black-line drawings in version/release equal to contract drawings. Submit CAD Files or Revit Model and drawings upon substantial completion.

17 TESTS

17.1 All portions of the electrical work are to be tested and checked for satisfactory operation.

17.2 Before energizing any portion of the electrical system, perform megger tests on all feeders and branch circuits. Results of such tests shall conform to the requirements of the National Electrical Code and are to be to the satisfaction of the authorized inspection agency and the Engineer.

17.3 Upon completion of the work and immediately prior to final inspection and takeover, check the load balance on all feeders and at distribution center, panels, etc. Turning on all possible loads in the tenant and checking load current balance shall carry out the tests. If load unbalance exceeds 15 per cent, reconnect circuits to balance the load.

18 GUARANTEE/WARRANTY

18.1 That all work executed under this contract will be free from defects of material and workmanship for a period of one (1) year from the date of final acceptance of this work, unless noted otherwise.

18.2 The above parties further agree to, at their own expense, repair and replace all such defective work and other work damaged thereby which fails or becomes defective during the term of the warranty provided that such failure is not due to improper usage.

18.3 The period of the warranty specified shall in no way supplant any other guarantee of a longer period but shall be binding on work not otherwise covered.

18.4 All Category 6 data cables and connectors will carry a 25-year manufacturer's warranty for bandwidth to 2.4G/bs.

19 BUILDING WIRING

19.1 All wiring shall be copper with THHN/THWN-2 insulation in rigid galvanized steel conduit or electrical metallic tubing. No wire smaller than No. 12 AWG gauge is to be used for branch circuit wiring. MC cable may be used only as follows:

.1 Above removable ceilings from EMT junction boxes down to new duplex receptacles mounted in existing drywall partitions. In this case, the EMT junction box must be mounted on the slab immediately above the partition wall.

.2 Within new drywall partitions to interconnect electrical devices, except that the connection from the junction box above the suspended ceiling down to the first electrical device in the drywall shall be wire in EMT conduit or empty EMT conduit for low voltage devices.

.3 With the above exceptions, all 120-volt branch circuit wiring must be installed in rigid conduit or EMT. MC cable shall be complete with anti-short bushings. Wiring shall be color coded to match existing installation. Rigid threaded galvanized steel conduit is to be used for stub-ups from concrete slabs and for exposed runs below seven (7) feet from the floor.

19.2 Conduit to be sized in accordance with the National Electrical Code.

19.3 Where the floor slab is drilled for conduit installation to wall junction boxes or to floor fittings the floor shall be DRY CORE DRILLED. After conduit installation the opening shall be caulked and sealed. Conduit after installation of conductors shall be sealed with heavy density fiberglass, to maintain the integrity of the fire rating for the structure. Electrical trade to pay for all associated X-ray costs.

20 DEMOLITION

20.1 General

.1 All unused conduit, wire, hangers, etc. is to be removed from the ceiling space. The intent is to keep the ceiling space clean.

.2 The Contractor is to record as-built information showing luminaire type, junction boxes, conduit routes, and circuit numbers. The contractor shall provide as-built drawings to the Owner at the completion of the project.

.3 The Contractor is to turn over equipment being removed to building management. Equipment not required by building management is to be removed from site by the Contractor.

.4 The Contractor is to seal all unused openings due to electrical demolition to ensure that fire-resistance rating is maintained.

.5 Provide decora blank coverplates at all unused outlets.

20.2 Lighting & Lighting Controls

.1 Existing base building luminaires are to remain unless noted otherwise.

.2 Luminaires to be removed as indicated on the drawings.

.3 Switches on walls being demolished shall be removed.

.4 Unused conduit and wire are to be removed.

.5 Provide blank coverplates at all unused outlets.

.6 Dimming stations associated with dimming system are to be removed. All conduit/wire to be removed in its entirety.

20.3 Power

.1 All circuits originating from panel boards located in electrical room which are not being re-used shall be pulled back to the source. Show information on as-built drawings. The electrical contractor is to inform the owner of any deficiency that is encountered during the demolition.

.2 Power connections and outlets are to be removed from walls to be demolished.

.3 All power associated with the existing Audio/Visual systems, including A/V racks & cabinets and panels & associated conduit/wire shall be removed back to the source in Electrical Room. Dimming Cabinets in the Electrical Riser Room shall also be removed.

.4 All electrical devices affected by demolition not shown on existing walls and columns are to be removed.

.5 Ensure that all existing receptacles left isolated by the removal of outlets in the same run shall be re-fed to become fully functional to the satisfaction of the engineer.

20.4 Communications

.1 Conduits are to be removed back in their entirety.

.2 All communication outlets with cabling, coverplates and connectors are to be removed where indicated.

.3 Data cabling interconnecting floors that is supplemental to base building riser systems shall be removed.

.4 Remove existing fiber and copper backbone between each floor and Floor Data Room.

.5 Existing communications cabling and connectors not shown on existing walls and columns are to be removed. Communications outlets that are not being reused shall be blanked off with coverplates.

20.5 Systems

.1 Fire alarm detection and alarm system are to remain operational during demolition.

.2 Fire alarm devices located on walls being demolished are to be removed and neatly secured to nearest building structure.

.3 All security and miscellaneous systems not related to base building operations are to be removed and their conduit and wire removed back to the source.

21 WIRING DEVICES

21.1 Boxes, except where otherwise noted, shall be pressed sheet steel UL listed and galvanized to CSA standards. All outlets for flush wall mounting switches, receptacles, telephone and LV outlets shall be No. 52151 box with appropriate plaster cover for single, 2-gang outlets or 4-gang outlets. Flush mounting voice/data, data & telephone wall outlets shall be No 52171 series (4 inch square, 2 $^{1/8}$ inches deep with appropriate plaster or extension ring.

21.2 Sectional type boxes or handy boxes shall not be used.

21.3 Receptacles on levels shall be white decora, or match existing. Where called for on the drawings, receptacles shall be orange faced indicating isolated ground receptacles. Receptacle mounting height to be at 18 inches. Special receptacles will be as shown on the drawings. Receptacles to be of specification grade and of one manufacturer throughout; e.g., Leviton.

21.4 Typical wall outlets comprising of more than two duplex receptacles or light switches shall have a common gang faceplate.

21.5 Occupancy lighting motion sensors shall be as manufactured by Wattstopper. Occupancy sensors shall be complete with power packs.

21.6 Plates for all flush mounting devices shall be white decora.

21.7 All isolated ground circuits to have separate neutral conductor per phase.

21.8 For non-isolated ground computer receptacles, provide separate neutral conductor per phase.

21.9 Kroy duratape 200 nametags to be provide on all existing and new receptacles indicating circuits and panel designation, e.g. B32. At all locations, dedicated circuits such as printers, faxes, plotters, copiers, etc. indicated on coverplate receptacle designation, i.e. computer, fax, printer, etc.

23 SUPPORTING DEVICES

23.1 Conduit supports: Single runs - to be galvanized conduit straps or ring bolt range 1 type hangers; multiple runs (three or more) - conduit rack; vertical runs - channel support with conduit fittings.

23.2 Install to maintain headroom, neat mechanical appearance and to support equipment loads required. Where inserts are required in concrete, expansion inserts, lead inserts or plastic inserts may be used in drilled holes. Wood or fiber plugs not permitted.

23.3 All electrical distribution including cable tray and conduit, which is mounted above the suspended ceiling, shall be supported directly and independently from the concrete slab.

23.4 The use of any part of the ceiling or ceiling suspension system as a support or foundation for the suspension of cable tray, conduit or flexible conduit (where permitted) is forbidden.

23.5 The use of any drywall or wall partition as a support or foundation for cable tray or conduit routed horizontally through the ceiling space is forbidden.

23.6 Support hangers and other trades to support non-electrical services or devices shall not use trays installed by the electrical trade.

24 PULLBOXES

24.1 Supply and install pullboxes as shown on the drawings and as required suiting job conditions. Pullboxes shall conform to National Electrical Code requirements and shall be finished in enamel over corrosion-resistant primer with screw-on or hinged cover. In removable ceiling areas, pullboxes are to be installed above the ceiling. Pullboxes in finished walls and plaster or non-removable ceilings shall have overlapping type trip with covers prime coated and painted on job to match wall or ceiling finish.

24.2 Surface mounted pullboxes or pullboxes above ceiling shall be finished in colors matching existing building.

25 GROUNDING

25.1 Supply and install a complete grounding system. The grounding/earthing system must meet the following criteria:

.1 Local electrical codes must be adhered to.

.2 The grounding/earthing system shall comply with J-STD-607-A and ANSI/TIA-942.

.3 All grounding/earthing conductors shall be copper.

.4 Lugs, HTAP's, grounding strips shall be made of tin plated electrolytic copper. Antioxidant shall be used while making connections in the field.

.5 Wherever possible, two hole lugs shall be used. All lugs shall be irreversible compression and meet NEBS level 3. Lugs with inspection windows shall be used in all non-corrosive environments.

.6 Die index numbers shall be embossed on all compression connections to allow for inspection.

.7 Cable assemblies shall be UL listed and CSA certified. Cables shall be distinctive green or green/yellow in colour and all jackets shall be UL, VW-1 flame rated.

25.2 The Telecommunications Grounding Busbar (TGB) in the telecommunications space will be grounded/earthed to the Telecommunications Main Grounding Busbar (TMGB) located at service entrance via the telecommunications grounding riser in electrical room. The gauge of the connecting ground/earth cable, known as the Telecommunications Bonding Backbone (TBB) will follow J-STD-607-A guidelines as indicated on drawings.

25.3 Any metallic component in the same space as the TGB including racks, ladders, enclosures, equipment, surge protective devices, cable tray, TBB's, other TGB's, electrical power panels for telecommunications equipment and the Grounding Equalizer if present. Equipment and rack shall be bonded in accordance with the methods described in ANS/TIA-942.

25.4 Route TBB to each TGB in as straight a path as possible. The TBB should be installed as a continuous conductor avoiding splices where possible. Plumbing and conduit shall not be used as TBB.

26 FIRE ALARM SYSTEM

26.1 Electrical trade is to extend existing closed circuit supervised annunciated fire alarm systems into tenant premises as indicated on drawings and specified herein. All new equipment and components shall match existing base building equipment and shall be by same manufacturer.

26.2 Connect new fire alarm system devices to the existing building fire alarm system per landlord and AHJ requirements. Expand/modify/reprogram existing fire alarm system as required to accommodate the new devices indicated. This is a performance based specification: Items shown are a minimum. Provide additional devices as required to adhere to all code requirements. Acceptable manufacturers: Match existing system manufacturer.

26.3 Actual fire alarm design is to be by a company licensed to design/install fire alarm systems in the State of Oregon. Fire Alarm submittals are to be submitted to AHJ for review and approval. Coordinate with facility personnel for possible specific fire alarm groups that should accommodate the fire alarm system updates: Obtain contact information from owner's representative and provide for all items accordingly.

26.4 All fire alarm strobes are to be minimum 110 candela and mounted 80" above finished floor.

26.5 Color code fire alarm system wiring and install in conduit. Install all wiring and products per manufacturer's requirements.

26.6 Make conduit and wiring connections to duct mounted smoke detectors.

26.7 Test completed fire alarm system in accordance with NFPA and the local AHJ.

26.8 All smoke detectors are to feed through fire alarm control unit, including smoke detectors installed in main supply air duct of each A/C unit. See mechanical drawings for duct detector locations.

26.9 All smoke detectors are to be minimum 36" away from HVAC supply diffusers or return air grilles.

26.10 Fire alarm system is to provide direct notification to the fire department.

27 LIGHTING CONTROL SYSTEM

27.1 Occupancy/Vacancy sensor layout on Drawings are designed based on Lutron; Approved manufacturers listed are allowed on condition of meeting the specified conditions including complete sensor coverage of the area controlled and switching of luminaires in the area controlled. Provide additional sensors and power switch packs as needed to provide the same level of functionality as shown on Drawings or required in Specifications. Remove and replace electrical equipment installed not meeting these conditions at no cost to Owner.

27.2 Occupancy sensor designation indicates sensors automatically turn lights ON when the sensor detects the presence of a person and will automatically turn lights OFF when no presence is detected for a specified amount of time (automatic-on and automatic-off).

27.3 Vacancy sensor designation requires someone to manually turn the lights ON. The sensor will then automatically turn the lights OFF when no presence is detected for a specified amount of time (manual-on and automatic-off).

27.4 Ceiling-Mounted Sensor: Programmable to operate as an occupancy sensor (automatic-on and automatic-off) or a vacancy sensor (manual-on and automatic-off). 360 degree sensor range; coverage: 1200 SF, unless otherwise noted on drawings. Multiple sensors can be wired in parallel to allow coverage of large areas.

27.5 Combination occupancy/vacancy wall switches ("Sensor switches"): Completely self-contained sensor system that fits into standard single gang box. Passive infrared sensor technology includes advanced signal processing to reduce false triggers without increasing sensitivity. LED indicator blinks when occupant sensed. Includes neutral wire to meet NEC. Finish is to be white.

28 POWER DISTRIBUTION

28.1 Provide new equipment as indicated on the drawings. Branch circuit breakers and wiring to be installed under this contract. Provide typewritten directory of panel loads and affix to panelboard doors.

28.2 Panelboards shall be composed of the number of circuit breakers with poles and trip ratings as listed in the schedules. Where space only is called for, provide all mounting brackets, busbar drillings, fillerplates, etc., to facilitate installation of future breakers.

28.3 New panelboards shall be of 225 amps, three phase, four wire solid neutral design composed of an assembly of bolt-in-place type molded case automatic air circuit breakers with both thermal and magnetic trip and trip free action. Each breaker shall be identified as to function and load controlled.

28.4 Panelboards shall be of corrosion-resistant finish having trim for flush or surface mounting as indicated in the schedules. Panelboard trim shall have a hinged locking door with flush type catch and lock over circuit breakers. All panelboards shall be of matching type to existing project.

28.5 Where called for provide an isolated stand-off ground bus on new or existing panelboards and connect back to the building ground with insulated #2 AWG.

28.6 Panel schedules shall be retyped to reflect existing and new circuits.

28.7 Panelboards to be subfed or double lugged as indicated. Provide double lug kits in existing and new panelboards as required. New panelboards feeding IG circuits shall be complete with IG bar. Where existing panelboards are being replaced with new, contractor shall relocate existing branch circuits to new panelboard and provide new breakers for existing and new circuits.

28.8 Label all equipment with lamacoid labels. Labels indicate equipment designations and voltage. Report to the engineer prior to installation.

28.9 Work requiring shutdown of power bus duct shall be coordinated with landlord and shall be carried out beyond normal working hours.

28.10 Allow for relocation of any equipment in electrical room which are necessary to allow for proper installation of new and relocated equipment.

28.11 Calculate arc flash incident energy (AIE) levels and flash protection boundary distances to determine required level of personal protective equipment (PPE) at applicable electrical equipment during normal conditions that could result in maximum arc flash incident energy levels. Calculations are to be stamped by a currently licensed electrical engineer registered in the State of the project scope. Provide label compliant with NFPA 70E guidelines indicating personal protective equipment (PPE) recommended for servicing of electrical equipment while energized, as well as calculated incident energy levels and arc flash protective boundary distance.

29 LUMINAIRES

29.1 Original installation of building standard 2/F32 watt T8 indirect basket type fluorescent luminaires does not form part of this contract.

29.2 However, supply and installation of low voltage switching equipment and wiring, over and above what presently exists, will be the responsibility of this contractor.

29.3 Luminaires shall be added, relocated or removed as indicated. Luminaires removed shall be turned over to the building owners.

29.4 Electrical trade shall be responsible for cleaning and replacing any and all damaged lens, faulty ballasts and provide touch-up paint where required. Replace burnt out lamps for fluorescent and incandescent luminaires where required.

29.5 All luminaires to be supplied complete with lamps. Incandescent lamps to be 5000 hours, 130 volt extended service type. Unless otherwise noted, all fluorescent lamps shall be standard warm white T8. Special lamps to be used where indicated with the longest life available in each category. Lamps shall be as manufactured by Phillips, Osram or Sylvania.

29.6 Light Emitting Diodes (LED's)

.1 All LED products must be tested and certified using the latest IES Standards LM-79 and LM-80, as well as ANSI Standards C62.41.1 and C62.41.2

.2 Correlated Color Temperatures to conform to latest ANSI NEMA ANSLG C78.377.

.3 Color Rendering Index to be greater than 80 CRI.

30 COMMUNICATION CABLING RACEWAY SYSTEM

30.1 Supply and install conduit, junction and outlet boxes to form a complete empty raceway system as described here and indicated on the drawings. All empty conduits will be complete with pullwire.

30.2 At each communications data, telephone or combination data/telephone outlet provide a 4" x 4" square box with plaster ring for single gang faceplate and associated communications connectors. Stub up a conduit from each outlet box into the above ceiling space to a height of 6" above the ceiling; provide a nylon grommet in each conduit to prevent cable damage.

30.3 Provide new cable tray as indicated on the drawings. Cable tray shall be Cablofil's continuous, rigid, welded steel wire mesh cable management system complete with patented safety edge T-welded wire lip. Cable tray shall be 12" wide and 4" deep. All T-bends and 90° to be installed using Cablofil EZ T90 kit. Cable exists (Cablofil part number CABEXIT) to be used where necessary. Splicing is to be accomplished using either Cablofil's nut/bolt/clamp assembly (part number EDRN). Install cable management system using hardware, splice connectors, support components, and accessories furnished by Cablofil and in accordance with the manufacturer's instructions including load span criteria. (See HYPERLINK "http://www.cablofil.com"www.cablofil.com for further details regarding load span criteria). Basket tray shall have a divider dividing basket 2/3 to 1/3 ratio. Cable tray drywall ceilings shall be enclosed type.

30.4 All non-plenum rated cable tray above the suspended ceiling raceways shall be routed parallel or perpendicular to the structure of the building and shall be supported from the concrete slab.

30.5 Plenum rated FT6/CMP cables may be routed exposed above the suspended ceiling in the return air plenum. Plenum rated cables shall be stamped FT6/CMP along the length of the cable jacket. Cables not carrying this designation must be routed in enclosed raceways. Cables must be supported independently from the structural slab.

30.6 The installation of exposed cable shall be managed to provide a neat installation. Where a number of cables are routed together, they shall be loaded in the perforated cable tray along the main trunk route, normally above the corridor ceiling, with off takes tied to ceiling stringers and not laid directly on the tiles. Cable will drop down into conduit stub-ups in the drywall and down to wall outlets. Supports from the existing ceiling grid, mechanical duct or sprinkler piping and associated support systems are not permitted.

30.7 Riser cables must be terminated only on assigned blocks as approved by the telecommunications consultant. Jumpers and wiring must run in "D" rings or equivalent and neatly secured. Cables shall be tagged with cross-reference to the as-built documentation. Cable pairs used must be recorded in the building Master Log Book and permanently tagged at each end. Perform all work in a neat and workmanlike manner following lines, in consideration of industry standards.

30.8 Permission must be obtained from the building manager to reuse existing riser cables and termination hardware. All reused components must be permanently tagged. Permission must be obtained from the building manager to use existing riser sleeves or slots. Permission must be obtained from the building manager for additional riser holes or sleeves. Core drilled holes will also require slab x-rays and approval of the structural engineer.

30.9 All riser sleeves and holes must be filled with UL or CSA approved fire stopping. All existing fire stopping that has been cut or removed must be replaced in an approved manner to restore original rating. Where new cables are run loose (i.e. not in conduit) they must be independently supported at maximum every 5' horizontally and three equally spaced times on every floor for vertical riser. All cables must be securely fastened to the plywood backboards to existing or new Unistrut or similar supports. All new cables must be FT6/CMP rated or as otherwise specifically approved by the telecommunications consultant. Installations must comply with the National Electrical Code and the building electrical standards.

30.10 All pull strings/cords must be replaced if distribution conduits/pathways are used by the contractors.

30.11 Cables and conduits must be labelled on both ends for every run and on every floor with the tenant's name and the floors of origin and termination (e.g. "ABC Oil 4 o 24"). Labels must be mechanically imprinted wraparound style. Cables that are installed in raceways or conduit provided by the building manager are to be labelled every 5m and in every junction box.

30.12 Conduit and cable must be installed in a neat and workable manner so as not to interfere with existing installation or to make them inaccessible. Follow building lines and comply with industry standards.

30.13 The installation of exposed cables shall be managed to provide a neat installation and shall be run parallel to building lines. Exposed cable in return air plenum will be attached to the ceiling every 3 feet by J-hooks and where more than one cable existing will be tie wrapped neatly. Cables are to be independently supported from the slab. Support from the sprinkler pipes, conduit, T-bar, mechanical ducts, etc. is not acceptable.

30.10 Server Room ###

.1 ¾", 8ft high, full width of the longer wall, sheets of plywood, backboard. The plywood shall be treated with two (2) coats of non-conductive, fire resistance paint to match wall paint. Supply and install backboards as indicated on the plans. Install plywood in server room only.

31.1 EXIT LIGHTS

31.2 Standard profile, stencil style with ADA/TAS direction arrows, matte oyster finish with letters with red plastic backing, complete with 1.5 watt LED and 90 minute minimum battery. Exit luminaires to match existing. Exit luminaires to be single face or twin face with universal mounting.

32 MECHANICAL EQUIPMENT WIRING

32.1 Electrical trade to provide all connections, starters, disconnect, etc., required for mechanical equipment. All low voltage controls and control wiring will be the responsibility of the mechanical trade and/or his control subtrade. Electrical trade shall confirm with the mechanical trade, the size, characteristics, and locations of all mechanical equipment before installation of conduits, outlets, heaters, etc.

32.2 The magnetic starters will be complete with control transformer, HOA switch, pilot light and required number of auxiliary N.O. and N.C. contacts required to perform control function. Control wiring from magnetic starters to various pieces of control equipment, interlocking, etc. shall be the responsibility of the controls contractor.

33 BASE BUILDING SPECIFICATIONS

33.1 All work must be performed to the base building specifications. Specifications on the base building for Tenant are available from building management for information and use.

34 ENGINEER'S INSPECTIONS

34.1 An inspection will be carried out by the engineer prior to the replacement or installation of suspended ceiling tiles. The electrical contractor shall advise the engineer when all work has been completed above the suspended ceiling. Failure to notify the engineer in time will necessitate the removal of all ceiling tiles for inspection purposes. Allow at least 24 hours notice of the installation of ceiling tiles.

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SPECIFICATIONS - ELECTRICAL

Sheet No

E800

PLUMBING SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

(A)	ABANDON IN PLACE
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
&	AND
A	AQUASTAT, ARCHITECT, ANCHOR, AMPHERE
@	AT
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BTUH	BRITISH THERMAL UNITS PER HOUR
BLDG	BUILDING
CV	CHECK VALVE
CO	CLEANOUT
CW	COLD WATER
CD	CONDENSATE DRAIN
CONT.	CONTINUATION
CFH	CUBIC FEET PER HOUR
CFS	CUBIC FEET PER SECOND
(X)	DEMOLISH
DW	DISHWASHER, DOMESTIC WATER
DET	DOMESTIC EXPANSION TANK
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DN	DOWN
DS	DOWNSPOUT
DSN	DOWNSPOUT NOZZLE
D	DRAIN
DFU	DRAINAGE FIXTURE UNIT
DWV	DRAINAGE, WASTE AND VENT
DF	DRINKING FOUNTAIN
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
(E)	EXISTING
FT	FEET
FFE	FINISHED FLOOR ELEVATION
F	FIRE, FAHRENHEIT
FL	FLOOR
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FV	FLUSH VALVE
'	FOOT, FEET
(F)	FUTURE
GPM	GALLONS PER MINUTE
GWH	GAS WATER HEATER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
HB	HOSE BIBB
HW	HOT WATER
HWFU	HOT WATER FIXTURE UNIT
HWR	HOT WATER RETURN
IN, "	INCHES
IW	INDIRECT WASTE
INV	INVERT ELEVATION
L	LAVATORY
MIN	MINIMUM
MX	MIXING VALVE
MS	MOP SINK
(N)	NEW
N	NORTH
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
#	NUMBER
NO.	NUMBER
OD	OVERFLOW DRAIN, OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
PLBG	PLUMBING
P	PLUMBING, PUMP
POC	POINT OF CONNECTION
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP, PLUMBING DEMOLITION, PUMPED DISCHARGE
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RWL	RAINWATER LEADER
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R)	RELOCATE / RELOCATED LOCATION
RD	ROOF DRAIN
SAN	SANITARY
SB	SERVICE BOX
SHT	SHEET
SA	SHOCK ARRESTOR
SOV	SHUT OFF VALVE
S, SK	SINK
SF	SQUARE FEET
SD	STORM DRAIN
SP	SUMP PUMP, STATIC PRESSURE
TEMP	TEMPERATURE
TP	TRAP PRIMER, TOTAL PRESSURE
TYP	TYPICAL
U, UR	URINAL
V	VACUUM, VENT, VOLT
VTR	VENT THRU ROOF
WCO	WALL CLEANOUT
W	WASTE
WC	WATER COLUMN, WATER CLOSET
WHA	WATER HAMMER ARRESTOR
WH	WATER HEATER, WALL HYDRANT
WSFU	WATER SUPPLY FIXTURE UNIT
W/	WITH

General

- KEYED NOTE (X)
- DEMOLISH
- EXISTING WORK
- NEW WORK
- PIPE OR CONDUIT BELOW GRADE
- CONTINUATION
- EXTENT OF DEMOLITION
- POINT OF CONNECTION
- FIXTURE TAG (LEVEL BELOW FIXTURE) (X)
- HVAC EQUIPMENT IDENTIFICATION (REF. ONLY) XXX-X
- PLUMBING EQUIPMENT IDENTIFICATION XX-X / LOCATION

Piping Fittings

- ACCESS PANEL AP
- AQUASTAT
- BLIND FLANGE
- CAP
- CLEANOUT TO GRADE COTG
- CONCENTRIC REDUCER
- DOWNSPOUT NOZZLE DSN
- ECCENTRIC REDUCER
- FLOOR CLEANOUT FCO
- FLOOR DRAIN FD
- FLOOR SINK FS
- FLOW DIRECTION
- HOSE BIBB / WALL HYDRANT
- OVERFLOW ROOF DRAIN OD
- PIPE DROP
- PIPE RISE
- PUMP
- ROOF DRAIN RD
- SHOCK ABSORBER / WATER HAMMER ARRESTOR
- STRAINER
- T&P RELIEF VALVE WITH PIPE TO DRAIN
- TEE DOWN ON PIPE
- TEE UP ON PIPE
- VENT THROUGH ROOF VTR
- WALL CLEANOUT WCO

Piping Systems

- COLD WATER PIPING
- CONDENSATE / INDIRECT DRAIN PIPING D
- HOT WATER PIPING
- HOT WATER RETURN PIPING
- NATURAL GAS PIPING, 2 LB 2#G
- NATURAL GAS PIPING, 7" WC PRESSURE G
- OVERFLOW DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR OD
- SANITARY VENT PIPING
- SANITARY WASTE OR SOIL PIPING ABOVE GRADE OR FINISHED FLOOR
- SANITARY WASTE OR SOIL PIPING BELOW GRADE OR FINISHED FLOOR
- STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR SD
- STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR SD
- TRAP PRIMER PIPING TP

Valves

- BACKFLOW PREVENTER BFP
- CHECK VALVE
- SHUTOFF VALVE, GENERAL

GENERAL PLUMBING NOTES

A. CONDITIONS SHOW ON THE PLANS RELATIVE TO THE WORK TO BE PERFORMED ARE BASED ON THE BEST INFORMATION AVAILABLE BUT ARE SUBJECT TO VERIFICATION. VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES TO BE CROSSED OR CONNECTED. CORRECT DEFICIENCIES CAUSED BY FAILURE TO PERFORM SUCH VERIFICATIONS AT NO EXPENSE TO OWNER. IMMEDIATELY NOTIFY ARCHITECT AND ENGINEER OF CONDITION IN CONFLICT WITH THE DETAILS/PLANS.

B. PROVIDE GAS SHUTOFF VALVES, PRESSURE REGULATORS AND UNION AT CONNECTIONS TO GAS-FIRED EQUIPMENT. PROVIDE REGULATOR RELIEF VENT PIPING TO ATMOSPHERE WHERE REQUIRED BY CODE.

C. COORDINATE INSTALLATION OF PIPING BELOW AND ABOVE GRADE WITH STRUCTURAL COMPONENTS AND OTHER SYSTEMS INSTALLATION.

D. COORDINATE FIXTURES, EQUIPMENT, PIPE ROUGH-IN/CONNECTION LOCATIONS AND DRAIN LOCATIONS WITH ARCHITECTURAL DRAWINGS.

E. PROVIDE CLEANOUTS FOR SANITARY WASTE AND STORM DRAINAGE SYSTEMS WHERE SHOWN AND AS OTHERWISE REQUIRED BY CODE.

F. FURNISH AND INSTALL VALVES, TRAPS, STRAINERS, BACK FLOW PREVENTER, ETC. NOT FURNISHED BY EQUIPMENT SUPPLIER, BUT REQUIRED FOR PROPER EQUIPMENT OPERATION.

G. SHUT-OFF VALVES TO BE INSTALLED IN ALL WATER AND GAS PIPING AT LOCATIONS SHOWN. PROVIDE ACCESS PANELS IF CEILING AND STRUCTURAL CONDITIONS DO NOT ALLOW NORMAL ACCESS. COORDINATE EXACT TYPE AND LOCATION WITH OWNER AND GENERAL CONTRACTOR PRIOR TO ROUGH-IN.

H. CONTRACTOR TO PROVIDE LOCATE/SCOPING SERVICES FOR EXISTING PIPING BELOW GRADE AND DOCUMENT/RECORD, COORDINATE WITH NEW WORK PRIOR TO START OF CONSTRUCTION.

I. SEE PLUMBING FIXTURE SCHEDULE FOR PIPE CONNECTION SIZES.

J. COORDINATE INSTALLATION OF DUCTWORK, PIPING, FIXTURES, EQUIPMENT, ETC.WITH ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL AND FIRE PROTECTION SYSTEMS PRIOR TO INSTALLATION.

K. REFER TO ARCHITECTURAL DRAWINGS FOR ADA ACCESSIBILITY REQUIREMENTS.

L. PROVIDE CEILING ACCESS PANELS FOR VALVES LOCATED ABOVE INACCESSIBLE CEILING SYSTEMS. VALVES INSTALLED ABOVE CEILING SHALL BE WITHIN 18" OF CEILING. MAINTAIN FIRE RATINGS WHERE REQUIRED.

M. SEE ARCHITECTURAL DRAWINGS FOR EXACT FIXTURE LOCATIONS.

N. REFER TO SPECIFICATIONS FOR SEISMIC RESTRAINT REQUIREMENTS FOR PIPING/EQUIPMENT.

SHEET INDEX

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SYMBOL LIST AND GENERAL NOTES - PLUMBING

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PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE TYPE	DESCRIPTION	BASIS OF DESIGN		ACCESSORIES	CONNECTION				ELECTRICAL	COMMENTS
			MFR	MODEL		W	V	CW	HW		
L-1	LAVATORY	WALL HUNG, ADA COMPLIANT, VITREOUS CHINA, SINGLE-HOLE PUNCH, FRONT OVERFLOW	AMERICAN STANDARD	0356.421	DECK MOUNTED, TOUCH-FREE, SENSOR OPERATED FAUCET, HARD WIRED, SINGLE HOLE, SINGLE-SUPPLY, 0.50 GPM; CHICAGO FAUCETS MODEL 116.706.AB.1; HARD-WIRE, MULTI-USE, CLASS 2 TRANSFORMER FOR UP TO 8 FAUCETS; CHICAGO FAUCETS MODEL 243.259.00.1; ASSE 1070 COMPLIANT MIXING VALVE, INTEGRAL CHECK VALVES, WATTS MODEL LFMMV (SET DISCHARGE TEMPERATURE AT 110 DEG. F.)	1-1/2"	1-1/2"	1/2"	1/2"	--	MOUNT LAVATORY AT ADA COMPLIANT HEIGHT, SEE ARCHITECTURAL PLANS FOR HEIGHT AND LOCATION. SEE SPECIFICATION SECTION 224000 FOR FLOOR MOUNTED CARRIER, TRAP COVERS, SUPPLY STOPS AND ADDITIONAL ACCESSORIES. COORDINATE INSTALLATION AND POWER REQUIREMENTS WITH DIVISION 26.
MS-1	MOP SINK	FLOOR MOUNTED, ONE PIECE MOLDED STRUCTURAL FIBERGLASS, 24-INCHES X 24-INCHES X 10-INCHES	MUSTEE	63M	WALL HUNG, MOP SINK FAUCET, 8-INCH CENTERS, LEVER HANDLES, PAIL HOOK, CHROME PLATED, ATMOSPHERIC VACUUM BREAKER, 3/4" THREADED HOSE OUTLET AND WALL FLANGE; CHICAGO FAUCETS MODEL 540-LD897SWXFABCP; 3/8" OFFSET INLET SUPPLY ARM WITH INTEGRAL CHECK; CHICAGO FAUCETS MODEL GCJK4ABCP; VINYL BUMPER GUARDS; MUSTEE MODEL 63.401	3"	2"	1/2"	1/2"	--	
S-1	SINK	DROP-IN, DOUBLE BOWL, 18 GAUGE STAINLESS STEEL, 33-INCHES X 21-INCHES X 6-1/2-INCHES DEEP, 36-INCH MINIMUM CABINET SIZE, 3-HOLE PUNCH, BARRIER FREE	ELKAY	LRAD332165	DECK MOUNTED FAUCET, 8-INCH RIGID/SWING GOOSENECK, 4" WRISTBLADE HANDLES, 8-INCH FIXED CENTERS, 1.5 GPM AERATED FLOW RATE; CHICAGO FAUCETS MODEL 201-AGN8AE35-317AB	2"	1-1/2"	1/2"	1/2"	--	SEE SPECIFICATION SECTION 224000 FOR SUPPLY STOPS AND ADDITIONAL ACCESSORIES.
SH-1	SHOWER	BARRIER FREE, ONE PIECE, 60-INCHES X 30-INCHES X 77-1/2-INCHES INSIDE DIMENSIONS, SLIP RESISTANT TEXTURED BOTTOM, HORIZONTAL BACK AND SIDE WALL GRAB BARS, VERTICAL SIDE WALL GRAB BAR, FOLD UP SEAT, STEEL CURTAIN ROD, 3/4-INCH THRESHOLD	COMFORT DESIGNS	SSS 6233BF-F .75 L-BAR	SINGLE HANDLE PRESSURE BALANCING SHOWER VALVE, SERVICE/CHECK STOPS, 1.5 GPM HANDHELD SHOWER HEAD FLOW RATE, 60-INCH FLEXIBLE METAL HOSE, 24-INCH MOUNTING BAR, VACUUM BREAKER; ZURN MODEL Z7300-SS-HW-MT-H9	2"	1-1/2"	1/2"	1/2"	--	HANDING BASED ON SEAT LOCATION, COORDINATE WITH ARCHITECT PRIOR TO PROCUREMENT. PROVIDE WITH OPTIONS AS LISTED IN DESCRIPTION.
WC-1	WATER CLOSET	FLOOR MOUNTED, FLOOR OUTLET, GRAVITY TANK TYPE, VITREOUS CHINA, ADA HEIGHT, ELONGATED, 1.28 GPF, 12" ROUGH-IN	SLOAN	WETS-4029.40 10	SEAT - ELONGATED, PLASTIC, SELF-SUSTAINING CHECK HINGES WITH NON-CORRODING STAINLESS STEEL POSTS; BEMIS MODEL 1955SSCT	3"	2"	1/2"	--	--	SEE ARCHITECTURAL PLANS FOR LOCATION. SEE SPECIFICATION SECTION 224000 FOR ADDITIONAL ACCESSORIES.
WM-1	OUTLET BOX	WASHING MACHINE OUTLET BOX (NON-FIRE RATED) - NSF-372 COMPLIANT, ABS BOX/FRAME, NO-LEAD BRASS VALVES, ASSE 1010 WATER HAMMER ARRESTORS, 3/4" OUTLET CONNECTIONS, 2" DRAIN CONNECTION, INDIVIDUAL DRAIN AND SUPPLY BOXES	SIOUX CHIEF	696G2313		2"	1-1/2"	1/2"	1/2"	--	SUPPLY CONNECTION TYPE PER PIPING MATERIAL. STANDARD PACK (SUPPLY BOX, FRAME, BRACKET & DEBRI COVER). INSTALL WITH BOTTOM OF BOX AT 34" A.F.F. UNLESS NOTED OTHERWISE.

GAS WATER HEATER SCHEDULE - TANK TYPE

SYMBOL	EQUIPMENT TYPE	LOCATION/ SERVING	BASIS OF DESIGN		GAS		CAPACITY		ELECTRICAL			MAX WT (LBS)	NOTES
			MFR	MODEL	TYPE	INPUT (BTU/H)	TANK CAPACITY(GALLONS)	RECOVERY RATE @ 100°F RISE (GPH)	VOLTS	PH	AMPS		
(E)GWH-1	NATURAL GAS FIRED, DIRECT VENTED, CONDENSING, HIGH EFFICIENCY - TANK TYPE	JANITOR 123	AO SMITH	GDVH	TANK	55000	60	0	120	1		490	

FIXTURE UNIT CALCULATIONS - UPC

COUNT	DESCRIPTION	WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS	
		CWFU (TABLE A-2)	CWFU TOTAL	.75 HWFU	DFU (TABLE 7-3)	DFU TOTAL
1	CLOTHES WASHER, DOMESTIC, STANDPIPE	4	4	3	3	3
2	FLOOR DRAIN		0	0	2	4
3	LAVATORY	1	3	2.25	1	3
1	MOP SINK	3	3	2.25	3	3
1	SHOWER, PER HEAD	2	2	1.5	2	2
1	SINK	2	2	1.5	2	2
3	WATER CLOSET, FLUSH TANK	2.5	7.5	0	4	12
FIXTURE UNIT COUNT TOTALS:			21.5	10.5		29

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Revisions

No.	Description	Date

Stamp

REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 21, 1995
STEVEN E. DAGLIS

EXPIRES: 12/31/25

Issuance
Permit Set

Date
Mar 22nd, 2024

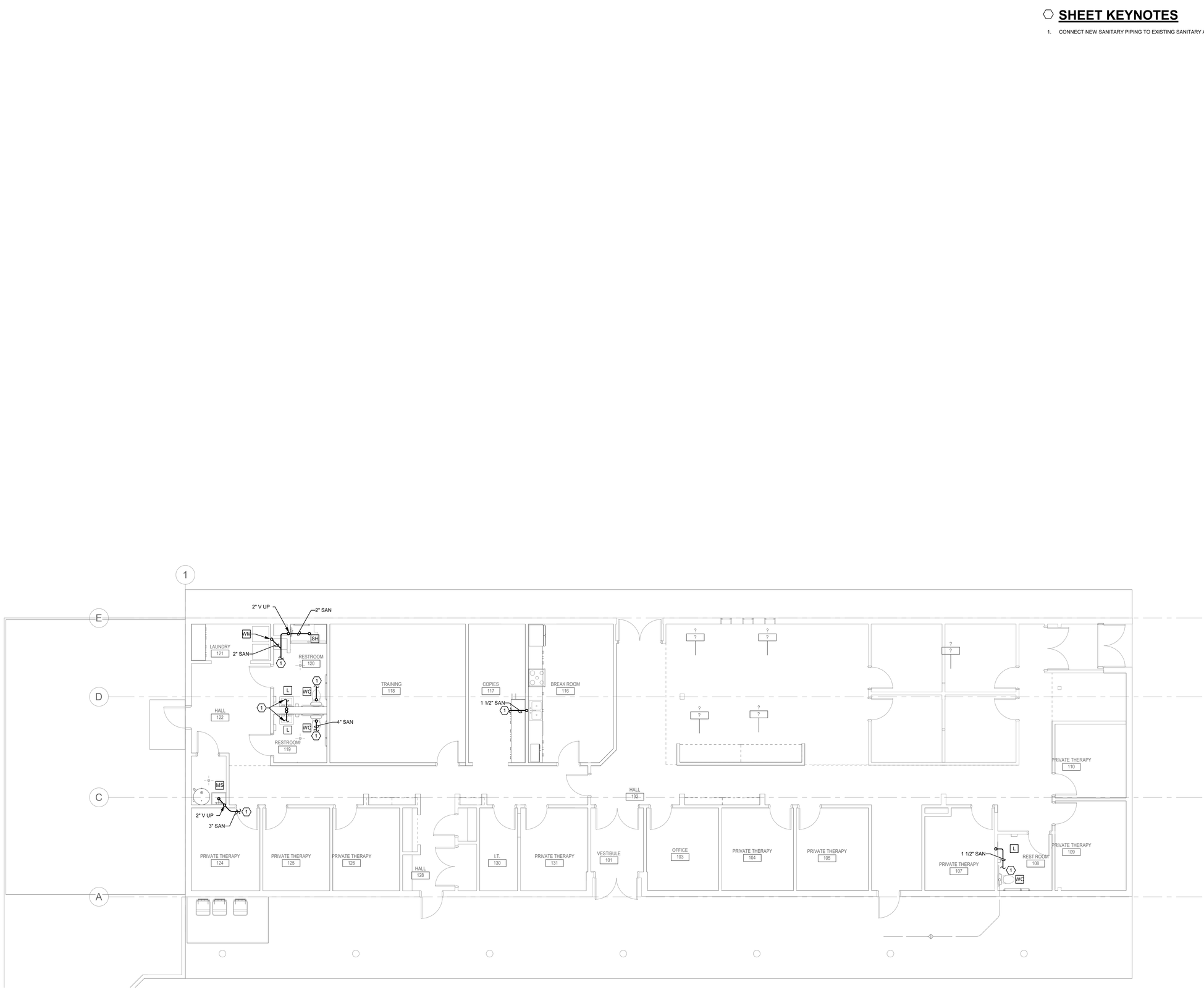
Project Number
2023-1255

Drawing Title
SCHEDULES - PLUMBING

Sheet No
P002

SHEET KEYNOTES

1. CONNECT NEW SANITARY PIPING TO EXISTING SANITARY AS REQUIRED.



1 LEVEL 1 PLUMBING UNDERGROUND PLAN - OVERALL

0' 4' 8' 16'

3/16" = 1'-0"

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Date

Mar 22nd, 2024

Project Number

2023-1255

Drawing Title

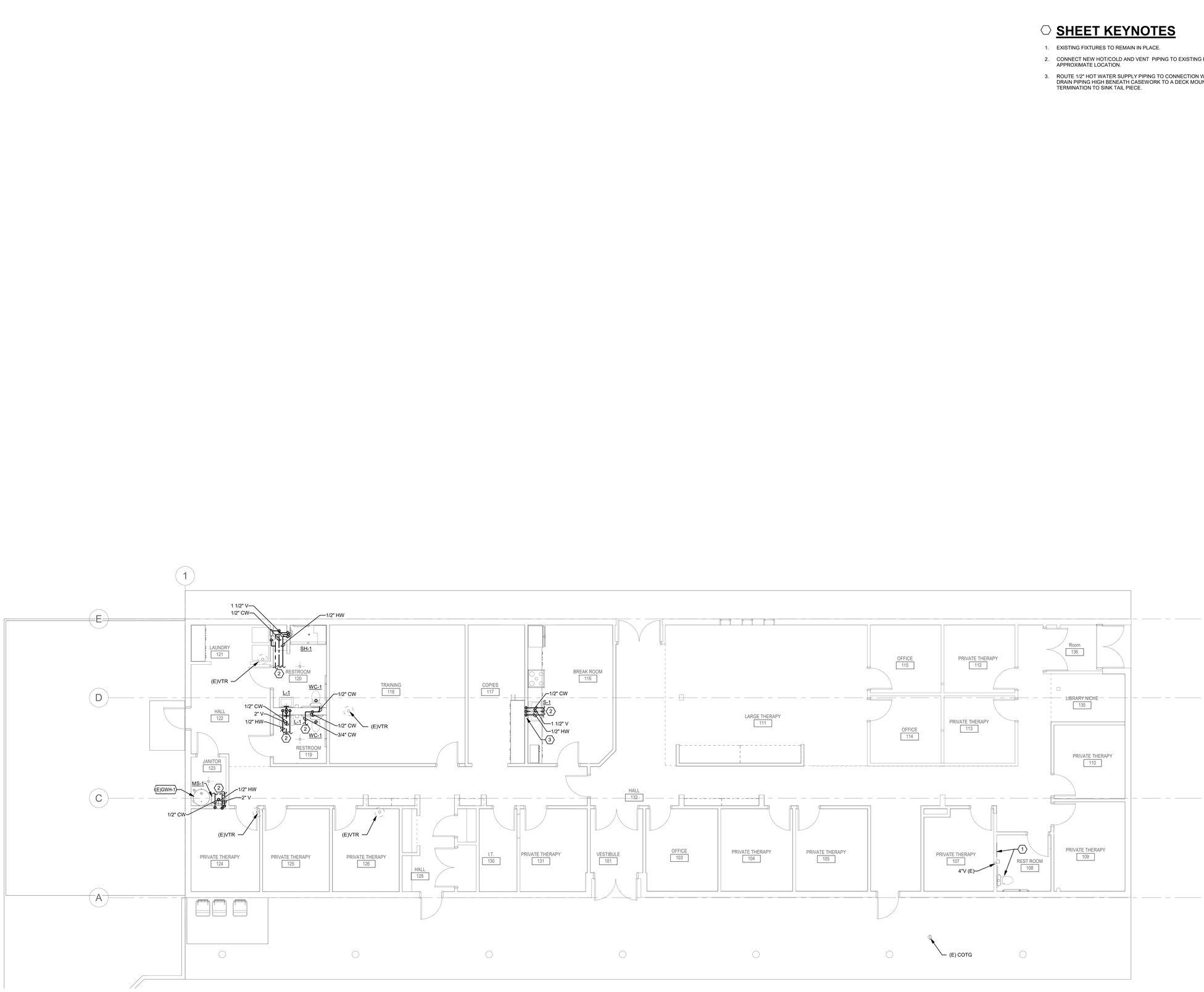
UNDERGROUND PLAN - PLUMBING

Sheet No

P200

SHEET KEYNOTES

1. EXISTING FIXTURES TO REMAIN IN PLACE.
2. CONNECT NEW HOT/COLD AND VENT PIPING TO EXISTING PIPING, AT THIS APPROXIMATE LOCATION.
3. ROUTE 1/2" HOT WATER SUPPLY PIPING TO CONNECTION WITH DISHWASHER, ROUTE DRAIN PIPING HIGH BENEATH CASEWORK TO A DECK MOUNTED AIR GAP FITTING TO TERMINATION TO SINK TAIL PIECE.



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Date
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Drawing Title
FLOOR PLAN - PLUMBING

Sheet No
P201

DATE 4/8/2024 7:59:52 AM
FILE PATH:C:\Users\scott\OneDrive - Interface Engineering, Inc\Documents\23020 ABA Clinic MEP R23_Scott34.rvt

SECTION 00 9111

ADDENDUM NUMBER 1

PART 1 GENERAL

1.01 PARTICULARS

A. DATE: April 15, 2024

B. PROJECT: OIT Applied Behavioral Analysis Clinic

C. PROJECT NUMBER: 23020

1.02 TO: PROSPECTIVE BIDDERS:

A. This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated March 22, 2024, with amendments and additions noted below and specifications sections and drawings enclosed or attached.

PART 2 AMENDMENTS AND ADDITIONS

2.01 CLARIFYING QUESTIONS:

A. See responses to Bid #2024-02 Clarifying Questions 1.

2.02 CHANGES TO THE DRAWINGS:

A. ARCHITECTURAL DRAWINGS
   1. **Revise** Sheets G101, A101, A201, A202, A301, A801 per attached.
      a. Changes made to floor plan to keep existing structural wall between Offices 114 and 155 and Private Therapy rooms 112 and 113.
      b. Changes made to ceiling plan and lighting placement to keep existing structural wall.
      c. Two Offices and two Private Therapy rooms switched with Large Therapy room.
      d. New Vestibule and Library Niche added along east wall.
      e. Updates made to Door and Frame Schedule.
      f. Updates made to Hardware Groups.
      g. More information added about landscaping in Site Plan.

B. MECHANICAL DRAWINGS
   1. **Revise** Sheets M002, M201 per attached.
      a. Vents and ducts rerouted to accommodate changes in floor plan to keep existing structural wall.

C. ELECTRICAL DRAWINGS
   1. **Revise** Sheets E002, E201, E301, E501 per attached.
      a. Lighting Plan and Power Plan adjusted to accommodate changes in floor plan. Luminaire Schedule updated.

D. PLUMBING DRAWINGS
   1. **Revise** Sheets P002, P200, P201 per attached.
      a. Notes about fixtures and sanitary piping in Restroom 108 updated.

END OF ADDENDUM NUMBER 1